

September 9, 2024

Mr. Brad Young, P.E. East Kentucky Power Cooperative 4775 Lexington Road Winchester, KY 40391

Re: EKPC New Generation Project Feasibility Report and Alternatives Analyses

Dear Mr. Young:

East Kentucky Power Cooperative (EKPC) requested Burns & McDonnell Engineering Co. (BMcD) review the feasibility of adding several new generation facilities across multiple potential site locations in Kentucky. As part of this effort, BMcD held multiple scope discussion meetings to review equipment assumptions, facility sizing and technology considerations, site locations and layout concerns, and developed preliminary scopes for each generation option. BMcD then developed short-form specifications for the major equipment in several technologies and solicited budgetary bids from these technology providers to help develop approximate project scope, schedules, and cost estimates. Additionally, BMcD requested sufficient technical data from the major equipment suppliers to support EKPC with initiating PJM/Interconnection Request, Public Service Commission application, and other upfront activities as defined by the schedule. A brief description of each generation facility type and what was reviewed is described below.

New Generation Facility Options

As part of the project feasibility report (PFR), EKPC requested BMcD review the following new generation options at various potential project sites:

- Reciprocating Internal Combustion Engines (RICE)
- Combined Cycle Gas Turbine (CCGT) Generation Facilities
- Simple Cycle Gas Turbine (SCGT) Generation Facilities

BMcD also evaluated other generation options which are summarized in separate reports. These include coal-to-gas conversion at multiple project sites, nuclear generation, synchronous condenser, and solar generation.

Multiple site locations were considered for each option based on projected future generation demand, relative proximity to existing transmission lines and natural gas pipelines, as well as minimizing land acquisition and additional permitting from greenfield sites. A brief explanation of each option is described below.

RICE Facility Options

EKPC reviewed multiple potential greenfield site locations in central Kentucky, primarily located around the Campbellsville and Liberty areas. Following a Siting Study BMcD identified which potential locations would minimize project capital cost by co-locating close to both the existing high voltage



transmission lines and natural gas pipelines in the area. For the more favorable site locations, BMcD developed preliminary general arrangements (GA's) and initiated a feasibility analysis while in parallel EKPC reviewed existing land parcel ownership resell opportunities. In BMcD's feasibility analysis, each parcel was reviewed for sufficient land area for the new RICE facility, water availability, noise sensitivity, adjacent property owner's residence or community gathering locations (e.g. places of worship), voltage support advantages, wetlands and other potential regulatory hurdles. Although some parcels were more favorable than others, most existing landowners were not open to resell which left three potential parcels close to Liberty (Liberty 3, Liberty 4, Liberty 5) and one potential parcel located close to Campbellsville (Campbellsville 6). Of these options, both the Liberty 3 and Campbellsville 6 properties were deemed technically acceptable due to the closer proximity of gas pipelines and the existing 161 kV transmission line.

On the Campbellsville 6 site, due to the way natural gas pipelines cross the property, insufficient suitable land space is available without either removing trees (which will impact environmental permitting) or locating the facility close to adjacent dwellings (at the northwest corner of the parcel) that increases the likelihood of noise concerns. Therefore, it was determined that rerouting one of the existing pipelines would be required. BMcD engaged the gas pipeline owner/operatorto review the potential for rerouting one of the existing pipelines and to determine pipeline easement requirements. The Campbellsville 6 overall site plan illustrates the final agreed-to facility location and associated pipeline easements.

Minimal transmission work would be needed for the Campbellsville 6 site. An existing EKPC 161 kV line is in close proximity to the site; therefore, a new substation would be built with short connections from that existing 161 kV line to the new substation. Additionally, power-flow analysis modeling this generation addition indicates that potential transmission-system network upgrades required would be relatively minor in scope and cost. The disadvantage of this site from a transmission perspective is that it is geographically further from the southern portion of EKPC's system, which requires more generation support than the Campbellsville area during high-load periods.

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A moderate level of transmission work would be needed for this site. An existing EKPC 161 kV line is in close proximity to the site; therefore, a new substation would be built with short connections from that existing 161 kV line to the new substation. Additionally, power-flow analysis modeling this generation addition indicates a small number of transmission-system network upgrades that could be required – most of these would be small scope projects. The most significant project required would be a rebuild of the existing 161 kV line from the new substation at the Liberty 3 site to the existing Liberty Junction



substation (a distance of approximately 8 miles). The advantage of this site from a transmission perspective is that it is geographically in the southern portion of EKPC's system, and thereby can provide more support to the transmission system when needed during high-load periods.

EKPC desired a minimum of 214 MW of net new generation produced by this RICE facility. Existing RICE manufacturers include Wartsila, Caterpillar, GE/Jenbacher, MAN, and Hyundai Heavy Industries. To achieve the desired 214 MW with less machines, it was recommended to focus on 18 MW or larger engines for this feasibility effort. Of the manufacturers, only Wartsila and MAN produce 18 MW or larger engines. BMcD engaged with both manufacturers and provided a shortform technical specification to request sufficient technical data to initiate a PJM Interconnect application, as well as budgetary costs and lead times to further develop the project feasibility. BMcD used the vendor-supplied conceptual information (along with past project experience) to develop the PFR deliverables such as the site general arrangement, scope matrix (Appendix B), equipment list (Appendix D), one-line diagrams (Appendix E), performance and emissions estimates (Appendix G), project schedule (Appendix F) and cost estimate (Appendix H). Note that because RICE facilities do not require much water use, once it was confirmed a city supply would be available, a detailed water mass balance was determined to be unnecessary for this stage of the project.

BMcD used the preliminary equipment sizing, layout, and spacing requirements from each manufacturer (including electrical and control room sizing requirements) to develop the overall site general arrangement. EKPC indicated they wanted a majority of the equipment located indoors to minimize potential freezing and cold weather concerns. They also determined that the facility needed to be dual fuel capable. Each engine shall run on either natural gas or ultra-low sulfur diesel (ULSD) No.2 fuel oil to provide flexibility and redundancy should the primary fuel (natural gas) supply get curtailed by the gas company. In addition to the natural gas supply and conditioning equipment, 72 hours-worth of ULSD No.2 fuel oil will be stored in two tanks located onsite near the engine hall. The facility will be provided with administrative rooms and a separate warehouse. Because Liberty 3 is a greenfield site, the preliminary layout includes a new guard shack, property fencing, storm water retention pond, both permanent and temporary construction parking, and equipment laydown spaces. It was determined that the new meter and regulation (M&R) station would be placed near the edge of the site to provide unencumbered access by the pipeline company.

Using the preliminary GA and Site Plan and major equipment supplier budgetary cost estimates, BMcD used historical data to estimate the balance of plant (BOP) costs for the rest of the project. These capital costs were included with the other project costs and are included in Appendix H. Likewise, using the major equipment supplier's lead time along with past project historical durations, BMcD developed a preliminary Level 1 project schedule which is provided in Appendix F.

CCGT Generation Facility Options

Similar to the RICE facilities, EKPC reviewed several potential site locations for combined cycle generation plants, including their existing J.K. Smith (Smith) and John Sherman Cooper (Cooper) power stations as well as a few new greenfield locations in eastern Kentucky near and adjacent to the Ohio River (near Tygarts Creek). The Smith and Cooper sites both include a new 2x1 CCGT plant whereas the greenfield site in eastern Kentucky includes a 3x1 CCGT powerplant. The Cooper site would require a





new gas pipeline to deliver natural gas for the new facility. The Smith site already has nine simple cycle units onsite with sufficient excess gas supply and would have the most free space and infrastructure for the new CCGT plant. However, based on economics and sufficiency of water supply, EKPC preferred to locate the CCGT plant at the Cooper facility. The Tygarts Creek area facility was seen as a potential third option behind the other two sites, but additional siting development would be required to further vet this location.

Because of EKPC's experience with F-Class combustion turbine generators (CTG), it was desirable to pursue and add new units to the existing fleet for interchangeability of spare parts and familiarity of design/operation of the combustion turbines. Additionally, EKPC decided against duct firing the new heat recovery steam generators (HRSG) as the expected generation load did not require this extra capacity and for concerns for PM_{2.5}National Ambient Air Quality Standards (NAAQS). Based on this direction, the new 2x1 CCGT facility would generate approximately 725 MW (net). Due to the lack of sufficient water availability, the Smith site would require an air-cooled condenser (ACC) whereas the Cooper site is located next to Cumberland Lake and could use a cooling tower and wet surface condenser for cooling. The use of a cooling tower at the Cooper facility was also beneficial due to the decrease in parasitic load of 8-14 MW as opposed to the use of an ACC. The Tygarts Creek location would also likely use wet cooling due to its proximity to the Ohio River. This can be further evaluated if EKPC decides to pursue this location in the future.

In parallel with determining the site location for this 2x1 CCGT facility, BMcD developed short-form technical specifications and issued bid packages to the major equipment suppliers. For F-Class CTG's, this includes Siemens and General Electric (GE). The HRSG's were bid out to Vogt, GE, and Nooter Eriksen. The steam turbine generator (STG) was bid to Siemens, GE, and Toshiba. Using the technical data provided, BMcD was able to approximate expected performance and emissions from each major equipment manufacturer as well as help initiate the PJM Interconnection application and air permit.

As with the RICE facilities, BMcD used the supplied vendor information to create Site Plans and GA's for the two major CTG vendors at several site locations as discussed below:

Smith: The Smith 2x1 CCGT would be located on the site of a previously uncompleted coal plant. This site location was ideal for providing adequate space for all major equipment and included supporting infrastructure for transmission and gas pipeline onsite. Since some foundation and underground utilities were previously installed for the unfinished coal plant, an allowance for demolition of these items was included in the cost estimate.

Significant transmission infrastructure is already in place at Smith. A new 345 kV substation would most likely be required with new transmission-line connections to the existing 345 kV substation. For transmission-system network upgrades, a new 138 kV line from JK Smith to the existing EKPC Fawkes substation in northern Madison County is expected to be needed (estimated line length of approximately 17 miles). Additionally, numerous upgrades of existing transmission lines in the area are expected to be needed based on preliminary power-flow studies. This location provides minimal incremental benefits to the transmission system. The site currently has nine (9) simple-cycle combustion turbines that are



available to provide support to the transmission system in the region, so added generation at this location provides only marginal support beyond what already exists.

<u>Tygarts Creek</u>: This location was reviewed for a potential 3x1 CCGT facility in eastern Kentucky. Several greenfield parcels were reviewed for their close proximity to natural gas pipelines and existing transmission lines. A promising location was identified close to the Ohio River. However, EKPC indicated further development of this location is on hold.

A 765 kV transmission line owned by American Electric Power ("AEP") is in close proximity to this site. The CCGT facility would be connected to this 765 kV line via a new substation in order to integrate the generation facility into PJM. Preliminary power-flow analysis has identified several potential upgrades that could be required on the AEP system due to the new generation interconnection to its 765 kV system. This location would provide no benefits to the EKPC transmission system from a generation-support standpoint. There would be no direct connection to the EKPC system, since the facility would connect only to the AEP 765 kV system as the means to integrate the facility into the PJM market. Therefore, EKPC would not realize any transmission benefits from the facility.

<u>Cooper</u>: This location was favorable since the site houses an existing coal plant and provides substantial existing infrastructure, water and transmission along a corridor that needs voltage support. However, finding sufficient land space for the 2x1 CCGT plant was a challenge. EKPC indicated they were considering moth-balling Unit 1 and retrofitting Unit 2 with a coal-to-gas conversion. With these existing units no longer using coal at some future date uncertain whether by EPA's Greenhouse Gas Rule or Court Stay Motion, EKPC requested BMcD investigate using the land space of the existing coal pile for the new CCGT plant location. EKPC wanted a 10-day coal storage pile to remain for emergencies for Unit 2. To allow the existing smaller coal pile to remain in service, all coal handling support facilities (coal dumper, transfer conveyors, hoppers, etc.) must remain in service. Additionally, a coal pile pond would need to remain to collect coal pile surface runoff and settlement of coal fines prior to pumping to the existing wastewater treatment system as well as for holding excess storm water from the existing plant. Therefore, to best use the available space, it was determined a new smaller coal pile footprint could be reused for the combined cycle facility.

Because Cooper is located in a geographic area with lots of karst formations, understanding subsurface details will be important for further design. Due to a lack of existing subsurface data underneath the active coal pile, it was assumed that a large amount of flowable fill would be required in addition to piling the major equipment and buildings. This allowance was included in the cost estimate. Future subsurface investigation in and around the coal pile will be important to better understand what potential deep foundations would be required.

Significant 161 kV and 69 kV transmission infrastructure currently exists at Cooper. A new 161 kV substation would most likely be required with associated establishment of transmission-line connections to the existing 161 kV substation. Regarding transmission-system network upgrades, a new 161 kV line from Cooper to the existing LG&E/KU Alcalde substation which is southeast of the city of Somerset, Kentucky is expected to be needed (estimated line length of approximately 7 miles). Additionally,





numerous upgrades of existing transmission lines and substation equipment in the area are expected to be needed based on preliminary power-flow studies. The significant advantage of this site from a transmission perspective is that it is geographically in a key area of the southern portion of EKPC's system, and thereby can provide substantial support to the transmission system when needed during high-load periods.

Using the preliminary GA's and Site Plans, and major equipment supplier budgetary cost estimates, BMcD then used historical information from similar projects to estimate the BOP costs for the rest of the project. These capital costs were included with the other project costs and are listed in Appendix H. Likewise, using the major equipment supplier's lead time along with past project historical durations, BMcD developed a preliminary Level 1 project schedule which is provided in Appendix F.

SCGT Generation Facility

EKPC requested BMcD review the feasibility of adding simple cycle gas turbines to several sites as opposed to a new combined cycle plant (Smith and Tygarts Creek locations). The Smith facility currently has nine simple cycle gas turbines and EKPC would potentially add three more in the open slots planned for Units 8, 11, and 12 as well as two in the location of the potential combined cycle (previous unfinished coal plant) for a total of five new simple cycle gas turbines. As the Tygarts Creek site location would be greenfield, three x 100% SCGT's were placed on one of the larger potential land plots. Expected output is between 232-262 MW net (each CTG) depending on which GT manufacturer is chosen. Therefore, new/additional capacity would be ~1,161-1,312 MW (net) at Smith (5x), and ~697-787 MW (gross) at Tygarts Creek (3x). Each potential SCGT facility would include a full CTG package (either Siemens SGT6-5000F or GE 7F.05) which would be dual-fuel rated for natural gas or ULSD, new/additional fuel gas dewpoint heaters and pressure regulation, ULSD No.2 fuel oil storage tanks, unloading and forwarding pumps and inline heaters, new/additional fire water pumps (electric and diesel), air-cooled heat exchangers (ACHE) sized for each unit, along with new/additional water treatment systems for the additional demineralized water requirement. Refer to Appendix D for a full list of all equipment included for each facility option.

The additional water requirements for the dual fuel-rated turbines would be sourced from the existing system (Smith), a new well, or directly off the Ohio River (Tygarts Creek). Additional investigations should be completed in the next phase of the design to confirm adequate water capacity and any water treatment requirements for each site. Refer to Appendix C for the Water Mass Balance (WMB) for each option and site.

As with other generation options, BMcD used the preliminary equipment sizing, layout, and spacing requirements from each manufacturer (including electrical and control room sizing requirements) to develop the overall site general arrangement. EKPC indicated they wanted a majority of the equipment located indoors to minimize potential freezing and cold weather concerns, so enclosures were added around the CTG's and included in the project cost. Similar to the RICE and CCGT options, 72-hours of ULSD No.2 fuel oil storage was provided for emergency operation of the CTG's without natural gas. Using the vendor supplied information along with past project historical knowledge, BMcD developed preliminary facility one-line diagrams, evaluated expected performance and emissions estimates, Level 1 project schedules and conceptual cost estimates. Refer to the Appendices for details for each site.



Support Infrastructure

Several of the site locations would require new supporting infrastructure offsite for the new generation facilities including new supply natural gas pipelines, new high voltage transmission lines and interconnections, and new water sourcing. A brief discussion on each of these is included below.

New Gas Pipeline

To potentially reuse existing EKPC facilities (Spurlock and Cooper), EKPC wanted to investigate the feasibility of new gas pipeline for conversions to gas generation. BMcD engaged the owner/operator of nearby gas pipelines to review feasibility of a new supply gas pipeline as well as potential routes, costs, and lead times. Preliminary pipeline routes to each site along with high level costs and schedule were developed and provided to EKPC.

New High Voltage Transmission

Similar to the new gas pipelines, new transmission lines would need to be sited, permitted, and schedule and costs developed for supplying the new generation power to the PJM grid. However, a more detailed analysis of the options and routing is discussed in a separate report and these costs were excluded from the supplied capital costs for these projects at this time.

New Water Supply

Several of the new generation locations would be greenfield sites and sourcing sufficient makeup water was a concern. Following development of preliminary WMB's for the options, BMcD preformed desktop evaluations of existing water supply sources to confirm if sufficient water is available. Several of the sites indicated low capacity from nearby groundwater wells. However, for RICE projects, the water supply requirement was relatively low and local city/county potable water supply could achieve sufficient makeup capacity. For locations where larger supply would be required, equipment selections were made to minimize the makeup capacity requirements, namely the use of ACC's and ACHE's. For the sites located close to existing water supplies (i.e. Cooper, Tygarts Creek), it was assumed the existing Cumberland Lake or Ohio River could be sourced and permitted for makeup supply. BMcD recommends a more detailed analysis of each site's water supply and water quality requirements in the next phase of the project to confirm these assumptions.

Application Support

In addition to evaluating each new generation option, potential locations, and developing feasibility costs, BMcD supported EKPC with developing front end interconnection and permitting application process.

PJM/Interconnection Request

For the options EKPC indicated they were most likely to proceed with (RICE at the Liberty 3 location, CCGT at the Cooper power station), BMcD requested the necessary PJM Interconnection data from the major generator equipment suppliers (RICE, CTG, STG). With this data, BMcD supported EKPC with



filling out the technical portion of the PJM interconnection request to get the application process started. BMcD plans to continue to support EKPC in this process as needed.

Air Permit Application

BMcD also requested the necessary performance and emissions data from the major equipment suppliers to start the Air Permitting process. Using the preliminary GA's, BMcD identified stack locations, emission sources and locations, adjacent building heights, and supported EKPC's efforts to initiate the permitting process for the selected project locations. BMcD developed GA's and emissions data for the major equipment suppliers to support EKPC with each site's Air Permit application. BMcD will continue to support EKPC throughout the permitting process over the next phases of the project development.

Schedule

Level 1 project schedules for the selected new generation options were developed. These include approximate durations for project development studies, permitting (RUS NEPA EA application, Air Permit application, PSC CPCN application), PJM Interconnection application and review cycles, frontend procurements of major equipment (RICE engines, GSU's, CTG's, HRSG's, STG, ACC), detailed design and BOP procurements, construction and commissioning durations. These durations are based on recent project experience, EKPC feedback, and major equipment supplier stated lead times. It is expected that these schedules will be further developed and fine-tuned in subsequent project development.

Capital Cost Estimates

The information provided in this memo report is preliminary in nature and is intended to provide AACE Class 4 feasibility-level costs for EKPC to determine whether further evaluation is desired. Should EKPC elect to pursue one or several of these options for further evaluation, BMcD recommends a bottoms-up cost estimate based on a more detailed general arrangement, scope assumptions matrix, development of key engineering documents, and further refinement of pricing from equipment manufacturers.

The cost estimates are based on a multi-prime contract approach and were developed based on the general arrangement sketches in Appendix A, project scope assumptions listed in Appendix B, and conceptual design considerations included in Appendices C, D, and E. Major equipment costs were based on budgetary quotes from suppliers. BOP costs were scaled from similar recent projects of similar size and type. Indirect costs (construction management, engineering, start-up, and commercial) are percentages based on the direct cost and were discussed with EKPC in advance. Taxes, land acquisition, and fuel were excluded from this evaluation. Additionally, capital costs for new transmission lines and supply gas pipelines were also excluded at this time. A \$4,000,000 demolition allowance was included for the Smith site to cover expected subgrade demolition of unfinished coal plant foundations. An additional 2% of Total Project Costs for Owner's project related builders risk insurance was included. Project contingency was set to 15% of BOP with an additional 3% of major equipment direct and indirect project costs based on perceived unknowns and risks for each Option. Project escalation was assumed to be 4% per year of direct and indirect costs based on a COD of 2029 for the RICE project and 2033 for the CCGT and SCGT projects. Operation and Maintenance (O&M) costs were not evaluated in this study. Refer to Appendix H for more information on each option's cost estimate.



There is current market volatility for labor and supply of equipment and materials. Labor costs for the area were based upon Burns & McDonnell's experience in this location of the country. Supply of major equipment and materials continues to be very volatile in the market and could affect the overall project schedule and budget.

Estimates, schedules, forecasts, and projections prepared by BMcD relating to loads, interest rates, and other financial analysis parameters, construction costs and schedules, operation and maintenance costs, equipment characteristics and performance, and operating results are opinions based on BMcD's experience, qualifications, and judgement as a professional consultant. Since BMcD has no control over weather, cost and availability of labor, cost and availability of material and equipment, cost of fuel or other utilities, labor productivity, construction contractors' procedures and methods, unavoidable delays, construction contractors' methods of determining prices, economic conditions, government regulations and laws (including the interpretation thereof), competitive bidding or market conditions, and other factors affecting such estimates or projections, BMcD does not guarantee that actual rates, costs, quantities, performance, schedules, will not vary from estimates and projections prepared by BMcD.

Next Steps

Future project scoping studies will be necessary for project options that are of interest to EKPC. These studies would include refinement of general arrangements, a more in-depth review of plant failure modes, redundancy, life safety considerations, potential future expansions, more development of plant performance and expected emissions, project schedules, and development of front-end engineering deliverables. These include site design conditions and Code basis, permit matrix, project division of responsibility (DOR) matrix, equipment list, process flow diagram, heat & material balance, P&IDs, WMB, site arrangements, one-line diagrams, control system architecture, geotechnical analysis, system descriptions, water and wastewater analysis, and a further refined cost estimate based on these deliverables.

Summary & Recommendations

This memo report summarizes the new generation options reviewed and evaluated by BMcD and EKPC during the project feasibility study. This study was intended to provide EKPC with a greater understanding of each project's viability should they decide to pursue them further. Where this report focuses on the fossil fuel generation production of RICE, simple, and combined cycle facilities, additional studies and reports detail the other new generation options that EKPC is reviewing.

Of the RICE property options, several potential sites were promising, however Liberty 3 provides the environmentally preferable alternative including less impacts to adjacent properties and improved transmission support to EKPC's existing system. For CCGT facilities, both the existing Smith and Cooper Stations would provide favorable locations as the environmentally preferable alternatives to green field sites pending infrastructure upgrades Additionally, the Smith station would also be able to support new SCGT generation. The Tygarts Creek location is promising but would need further siting development to ensure it remains a feasible location. BMcD will support EKPC with any additional generation or site location analysis and next step scoping studies to continue to progress these new generation options.

Sincerely,



Zach Bahr, P.E. Engineering Manager

cc: Nick Bauer, Project Manager Von Steiner, Project Manager

- Appendix A Conceptual General Arrangements
- Appendix B Scope Assumption Matrices
- Appendix C Water Mass Balances
- Appendix D Equipment Lists
- Appendix E One-Line Diagrams
- Appendix F Preliminary Level 1 Schedules
- Appendix G Performance and Emission Estimates
- Appendix H Generation Option Capital Cost Estimates



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Using the preliminary GA and Site Plan and major equipment supplier budgetary cost estimates, BMcD used historical data to estimate the balance of plant (BOP) costs for the rest of the project. These capital costs were included with the other project costs and are included in Appendix H. Likewise, using the major equipment supplier's lead time along with past project historical durations, BMcD developed a preliminary Level 1 project schedule which is provided in Appendix F.

CCGT Generation Facility Options

Similar to the RICE facilities, EKPC reviewed several potential site locations for combined cycle generation plants, including their existing J.K. Smith (Smith) and John Sherman Cooper (Cooper) power stations as well as a few new greenfield locations in eastern Kentucky near and adjacent to the Ohio River (near Tygarts Creek). The Smith and Cooper sites both include a new 2x1 CCGT plant whereas the greenfield site in eastern Kentucky includes a 3x1 CCGT powerplant. The Cooper site would require a





new gas pipeline to deliver natural gas for the new facility. The Smith site already has nine simple cycle units onsite with sufficient excess gas supply and would have the most free space and infrastructure for the new CCGT plant. However, based on economics and sufficiency of water supply, EKPC preferred to locate the CCGT plant at the Cooper facility. The Tygarts Creek area facility was seen as a potential third option behind the other two sites, but additional siting development would be required to further vet this location.

Because of EKPC's experience with F-Class combustion turbine generators (CTG), it was desirable to pursue and add new units to the existing fleet for interchangeability of spare parts and familiarity of design/operation of the combustion turbines. Additionally, EKPC decided against duct firing the new heat recovery steam generators (HRSG) as the expected generation load did not require this extra capacity and for concerns for PM_{2.5}National Ambient Air Quality Standards (NAAQS). Based on this direction, the new 2x1 CCGT facility would generate approximately 725 MW (net). Due to the lack of sufficient water availability, the Smith site would require an air-cooled condenser (ACC) whereas the Cooper site is located next to Cumberland Lake and could use a cooling tower and wet surface condenser for cooling. The use of a cooling tower at the Cooper facility was also beneficial due to the decrease in parasitic load of 8-14 MW as opposed to the use of an ACC. The Tygarts Creek location would also likely use wet cooling due to its proximity to the Ohio River. This can be further evaluated if EKPC decides to pursue this location in the future.

In parallel with determining the site location for this 2x1 CCGT facility, BMcD developed short-form technical specifications and issued bid packages to the major equipment suppliers. For F-Class CTG's, this includes Siemens and General Electric (GE). The HRSG's were bid out to Vogt, GE, and Nooter Eriksen. The steam turbine generator (STG) was bid to Siemens, GE, and Toshiba. Using the technical data provided, BMcD was able to approximate expected performance and emissions from each major equipment manufacturer as well as help initiate the PJM Interconnection application and air permit.

As with the RICE facilities, BMcD used the supplied vendor information to create Site Plans and GA's for the two major CTG vendors at several site locations as discussed below:

Smith: The Smith 2x1 CCGT would be located on the site of a previously uncompleted coal plant. This site location was ideal for providing adequate space for all major equipment and included supporting infrastructure for transmission and gas pipeline onsite. Since some foundation and underground utilities were previously installed for the unfinished coal plant, an allowance for demolition of these items was included in the cost estimate.

Significant transmission infrastructure is already in place at Smith. A new 345 kV substation would most likely be required with new transmission-line connections to the existing 345 kV substation. For transmission-system network upgrades, a new 138 kV line from JK Smith to the existing EKPC Fawkes substation in northern Madison County is expected to be needed (estimated line length of approximately 17 miles). Additionally, numerous upgrades of existing transmission lines in the area are expected to be needed based on preliminary power-flow studies. This location provides minimal incremental benefits to the transmission system. The site currently has nine (9) simple-cycle combustion turbines that are



available to provide support to the transmission system in the region, so added generation at this location provides only marginal support beyond what already exists.

<u>Tygarts Creek</u>: This location was reviewed for a potential 3x1 CCGT facility in eastern Kentucky. Several greenfield parcels were reviewed for their close proximity to natural gas pipelines and existing transmission lines. A promising location was identified close to the Ohio River. However, EKPC indicated further development of this location is on hold.

A 765 kV transmission line owned by American Electric Power ("AEP") is in close proximity to this site. The CCGT facility would be connected to this 765 kV line via a new substation in order to integrate the generation facility into PJM. Preliminary power-flow analysis has identified several potential upgrades that could be required on the AEP system due to the new generation interconnection to its 765 kV system. This location would provide no benefits to the EKPC transmission system from a generation-support standpoint. There would be no direct connection to the EKPC system, since the facility would connect only to the AEP 765 kV system as the means to integrate the facility into the PJM market. Therefore, EKPC would not realize any transmission benefits from the facility.

<u>Cooper</u>: This location was favorable since the site houses an existing coal plant and provides substantial existing infrastructure, water and transmission along a corridor that needs voltage support. However, finding sufficient land space for the 2x1 CCGT plant was a challenge. EKPC indicated they were considering moth-balling Unit 1 and retrofitting Unit 2 with a coal-to-gas conversion. With these existing units no longer using coal at some future date uncertain whether by EPA's Greenhouse Gas Rule or Court Stay Motion, EKPC requested BMcD investigate using the land space of the existing coal pile for the new CCGT plant location. EKPC wanted a 10-day coal storage pile to remain for emergencies for Unit 2. To allow the existing smaller coal pile to remain in service, all coal handling support facilities (coal dumper, transfer conveyors, hoppers, etc.) must remain in service. Additionally, a coal pile pond would need to remain to collect coal pile surface runoff and settlement of coal fines prior to pumping to the existing wastewater treatment system as well as for holding excess storm water from the existing plant. Therefore, to best use the available space, it was determined a new smaller coal pile footprint could be reused for the combined cycle facility.

Because Cooper is located in a geographic area with lots of karst formations, understanding subsurface details will be important for further design. Due to a lack of existing subsurface data underneath the active coal pile, it was assumed that a large amount of flowable fill would be required in addition to piling the major equipment and buildings. This allowance was included in the cost estimate. Future subsurface investigation in and around the coal pile will be important to better understand what potential deep foundations would be required.

Significant 161 kV and 69 kV transmission infrastructure currently exists at Cooper. A new 161 kV substation would most likely be required with associated establishment of transmission-line connections to the existing 161 kV substation. Regarding transmission-system network upgrades, a new 161 kV line from Cooper to the existing LG&E/KU Alcalde substation which is southeast of the city of Somerset, Kentucky is expected to be needed (estimated line length of approximately 7 miles). Additionally,





numerous upgrades of existing transmission lines and substation equipment in the area are expected to be needed based on preliminary power-flow studies. The significant advantage of this site from a transmission perspective is that it is geographically in a key area of the southern portion of EKPC's system, and thereby can provide substantial support to the transmission system when needed during high-load periods.

Using the preliminary GA's and Site Plans, and major equipment supplier budgetary cost estimates, BMcD then used historical information from similar projects to estimate the BOP costs for the rest of the project. These capital costs were included with the other project costs and are listed in Appendix H. Likewise, using the major equipment supplier's lead time along with past project historical durations, BMcD developed a preliminary Level 1 project schedule which is provided in Appendix F.

SCGT Generation Facility

EKPC requested BMcD review the feasibility of adding simple cycle gas turbines to several sites as opposed to a new combined cycle plant (Smith and Tygarts Creek locations). The Smith facility currently has nine simple cycle gas turbines and EKPC would potentially add three more in the open slots planned for Units 8, 11, and 12 as well as two in the location of the potential combined cycle (previous unfinished coal plant) for a total of five new simple cycle gas turbines. As the Tygarts Creek site location would be greenfield, three x 100% SCGT's were placed on one of the larger potential land plots. Expected output is between 232-262 MW net (each CTG) depending on which GT manufacturer is chosen. Therefore, new/additional capacity would be ~1,161-1,312 MW (net) at Smith (5x), and ~697-787 MW (gross) at Tygarts Creek (3x). Each potential SCGT facility would include a full CTG package (either Siemens SGT6-5000F or GE 7F.05) which would be dual-fuel rated for natural gas or ULSD, new/additional fuel gas dewpoint heaters and pressure regulation, ULSD No.2 fuel oil storage tanks, unloading and forwarding pumps and inline heaters, new/additional fire water pumps (electric and diesel), air-cooled heat exchangers (ACHE) sized for each unit, along with new/additional water treatment systems for the additional demineralized water requirement. Refer to Appendix D for a full list of all equipment included for each facility option.

The additional water requirements for the dual fuel-rated turbines would be sourced from the existing system (Smith), a new well, or directly off the Ohio River (Tygarts Creek). Additional investigations should be completed in the next phase of the design to confirm adequate water capacity and any water treatment requirements for each site. Refer to Appendix C for the Water Mass Balance (WMB) for each option and site.

As with other generation options, BMcD used the preliminary equipment sizing, layout, and spacing requirements from each manufacturer (including electrical and control room sizing requirements) to develop the overall site general arrangement. EKPC indicated they wanted a majority of the equipment located indoors to minimize potential freezing and cold weather concerns, so enclosures were added around the CTG's and included in the project cost. Similar to the RICE and CCGT options, 72-hours of ULSD No.2 fuel oil storage was provided for emergency operation of the CTG's without natural gas. Using the vendor supplied information along with past project historical knowledge, BMcD developed preliminary facility one-line diagrams, evaluated expected performance and emissions estimates, Level 1 project schedules and conceptual cost estimates. Refer to the Appendices for details for each site.



Support Infrastructure

Several of the site locations would require new supporting infrastructure offsite for the new generation facilities including new supply natural gas pipelines, new high voltage transmission lines and interconnections, and new water sourcing. A brief discussion on each of these is included below.

New Gas Pipeline

To potentially reuse existing EKPC facilities (Spurlock and Cooper), EKPC wanted to investigate the feasibility of new gas pipeline for conversions to gas generation. BMcD engaged the owner/operator of nearby gas pipelines to review feasibility of a new supply gas pipeline as well as potential routes, costs, and lead times. Preliminary pipeline routes to each site along with high level costs and schedule were developed and provided to EKPC.

New High Voltage Transmission

Similar to the new gas pipelines, new transmission lines would need to be sited, permitted, and schedule and costs developed for supplying the new generation power to the PJM grid. However, a more detailed analysis of the options and routing is discussed in a separate report and these costs were excluded from the supplied capital costs for these projects at this time.

New Water Supply

Several of the new generation locations would be greenfield sites and sourcing sufficient makeup water was a concern. Following development of preliminary WMB's for the options, BMcD preformed desktop evaluations of existing water supply sources to confirm if sufficient water is available. Several of the sites indicated low capacity from nearby groundwater wells. However, for RICE projects, the water supply requirement was relatively low and local city/county potable water supply could achieve sufficient makeup capacity. For locations where larger supply would be required, equipment selections were made to minimize the makeup capacity requirements, namely the use of ACC's and ACHE's. For the sites located close to existing water supplies (i.e. Cooper, Tygarts Creek), it was assumed the existing Cumberland Lake or Ohio River could be sourced and permitted for makeup supply. BMcD recommends a more detailed analysis of each site's water supply and water quality requirements in the next phase of the project to confirm these assumptions.

Application Support

In addition to evaluating each new generation option, potential locations, and developing feasibility costs, BMcD supported EKPC with developing front end interconnection and permitting application process.

PJM/Interconnection Request

For the options EKPC indicated they were most likely to proceed with (RICE at the Liberty 3 location, CCGT at the Cooper power station), BMcD requested the necessary PJM Interconnection data from the major generator equipment suppliers (RICE, CTG, STG). With this data, BMcD supported EKPC with



filling out the technical portion of the PJM interconnection request to get the application process started. BMcD plans to continue to support EKPC in this process as needed.

Air Permit Application

BMcD also requested the necessary performance and emissions data from the major equipment suppliers to start the Air Permitting process. Using the preliminary GA's, BMcD identified stack locations, emission sources and locations, adjacent building heights, and supported EKPC's efforts to initiate the permitting process for the selected project locations. BMcD developed GA's and emissions data for the major equipment suppliers to support EKPC with each site's Air Permit application. BMcD will continue to support EKPC throughout the permitting process over the next phases of the project development.

Schedule

Level 1 project schedules for the selected new generation options were developed. These include approximate durations for project development studies, permitting (RUS NEPA EA application, Air Permit application, PSC CPCN application), PJM Interconnection application and review cycles, frontend procurements of major equipment (RICE engines, GSU's, CTG's, HRSG's, STG, ACC), detailed design and BOP procurements, construction and commissioning durations. These durations are based on recent project experience, EKPC feedback, and major equipment supplier stated lead times. It is expected that these schedules will be further developed and fine-tuned in subsequent project development.

Capital Cost Estimates

The information provided in this memo report is preliminary in nature and is intended to provide AACE Class 4 feasibility-level costs for EKPC to determine whether further evaluation is desired. Should EKPC elect to pursue one or several of these options for further evaluation, BMcD recommends a bottoms-up cost estimate based on a more detailed general arrangement, scope assumptions matrix, development of key engineering documents, and further refinement of pricing from equipment manufacturers.

The cost estimates are based on a multi-prime contract approach and were developed based on the general arrangement sketches in Appendix A, project scope assumptions listed in Appendix B, and conceptual design considerations included in Appendices C, D, and E. Major equipment costs were based on budgetary quotes from suppliers. BOP costs were scaled from similar recent projects of similar size and type. Indirect costs (construction management, engineering, start-up, and commercial) are percentages based on the direct cost and were discussed with EKPC in advance. Taxes, land acquisition, and fuel were excluded from this evaluation. Additionally, capital costs for new transmission lines and supply gas pipelines were also excluded at this time. A \$4,000,000 demolition allowance was included for the Smith site to cover expected subgrade demolition of unfinished coal plant foundations. An additional 2% of Total Project Costs for Owner's project related builders risk insurance was included. Project contingency was set to 15% of BOP with an additional 3% of major equipment direct and indirect project costs based on perceived unknowns and risks for each Option. Project escalation was assumed to be 4% per year of direct and indirect costs based on a COD of 2029 for the RICE project and 2033 for the CCGT and SCGT projects. Operation and Maintenance (O&M) costs were not evaluated in this study. Refer to Appendix H for more information on each option's cost estimate.



There is current market volatility for labor and supply of equipment and materials. Labor costs for the area were based upon Burns & McDonnell's experience in this location of the country. Supply of major equipment and materials continues to be very volatile in the market and could affect the overall project schedule and budget.

Estimates, schedules, forecasts, and projections prepared by BMcD relating to loads, interest rates, and other financial analysis parameters, construction costs and schedules, operation and maintenance costs, equipment characteristics and performance, and operating results are opinions based on BMcD's experience, qualifications, and judgement as a professional consultant. Since BMcD has no control over weather, cost and availability of labor, cost and availability of material and equipment, cost of fuel or other utilities, labor productivity, construction contractors' procedures and methods, unavoidable delays, construction contractors' methods of determining prices, economic conditions, government regulations and laws (including the interpretation thereof), competitive bidding or market conditions, and other factors affecting such estimates or projections, BMcD does not guarantee that actual rates, costs, quantities, performance, schedules, will not vary from estimates and projections prepared by BMcD.

Next Steps

Future project scoping studies will be necessary for project options that are of interest to EKPC. These studies would include refinement of general arrangements, a more in-depth review of plant failure modes, redundancy, life safety considerations, potential future expansions, more development of plant performance and expected emissions, project schedules, and development of front-end engineering deliverables. These include site design conditions and Code basis, permit matrix, project division of responsibility (DOR) matrix, equipment list, process flow diagram, heat & material balance, P&IDs, WMB, site arrangements, one-line diagrams, control system architecture, geotechnical analysis, system descriptions, water and wastewater analysis, and a further refined cost estimate based on these deliverables.

Summary & Recommendations

This memo report summarizes the new generation options reviewed and evaluated by BMcD and EKPC during the project feasibility study. This study was intended to provide EKPC with a greater understanding of each project's viability should they decide to pursue them further. Where this report focuses on the fossil fuel generation production of RICE, simple, and combined cycle facilities, additional studies and reports detail the other new generation options that EKPC is reviewing.

Of the RICE property options, several potential sites were promising, however Liberty 3 provides the environmentally preferable alternative including less impacts to adjacent properties and improved transmission support to EKPC's existing system. For CCGT facilities, both the existing Smith and Cooper Stations would provide favorable locations as the environmentally preferable alternatives to green field sites pending infrastructure upgrades Additionally, the Smith station would also be able to support new SCGT generation. The Tygarts Creek location is promising but would need further siting development to ensure it remains a feasible location. BMcD will support EKPC with any additional generation or site location analysis and next step scoping studies to continue to progress these new generation options.

Sincerely,

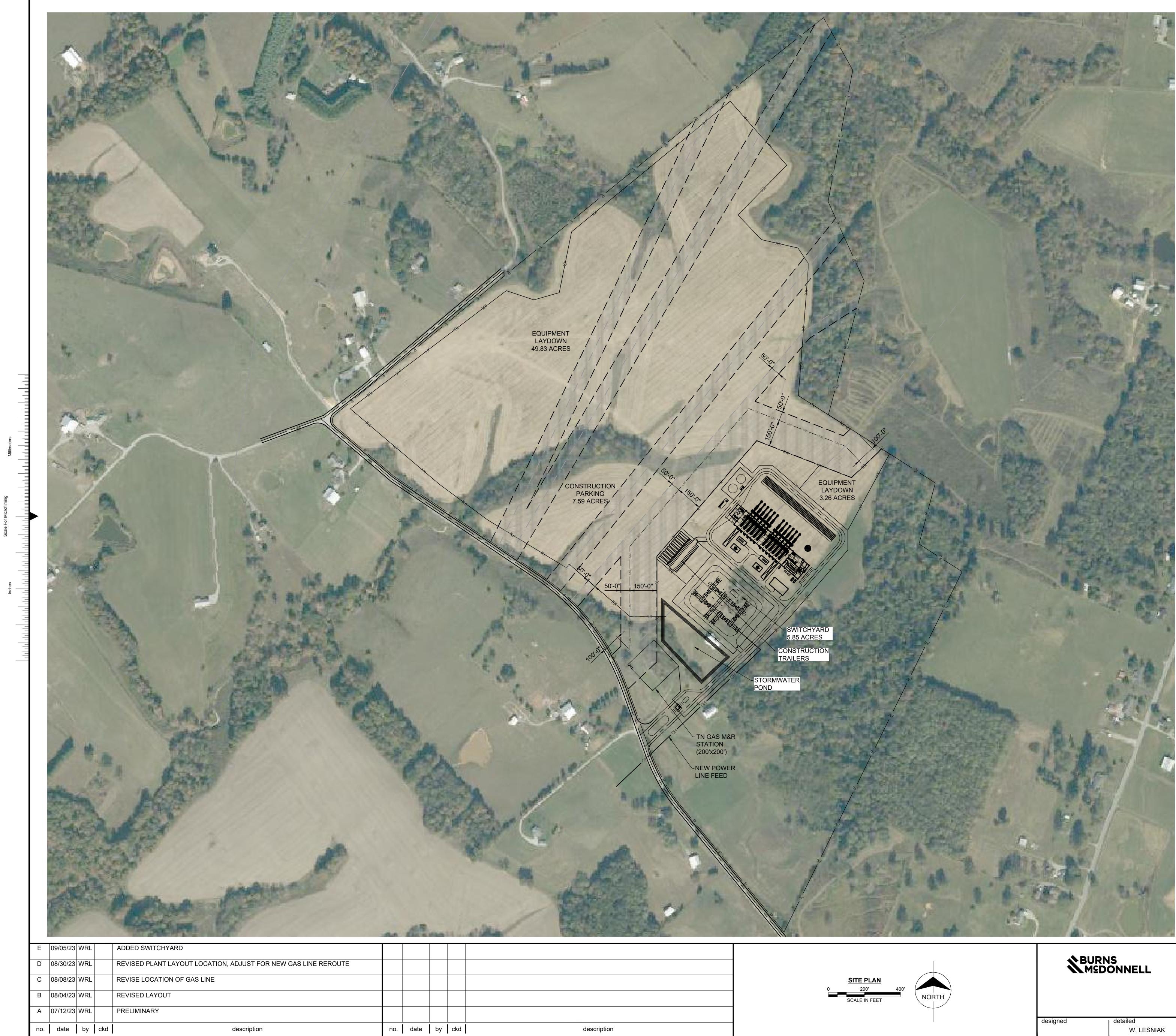


Zach Bahr, P.E. Engineering Manager

cc: Nick Bauer, Project Manager Von Steiner, Project Manager

- Appendix A Conceptual General Arrangements
- Appendix B Scope Assumption Matrices
- Appendix C Water Mass Balances
- Appendix D Equipment Lists
- Appendix E One-Line Diagrams
- Appendix F Preliminary Level 1 Schedules
- Appendix G Performance and Emission Estimates
- Appendix H Generation Option Capital Cost Estimates

APPENDIX A – GENERAL ARRANGEMENTS



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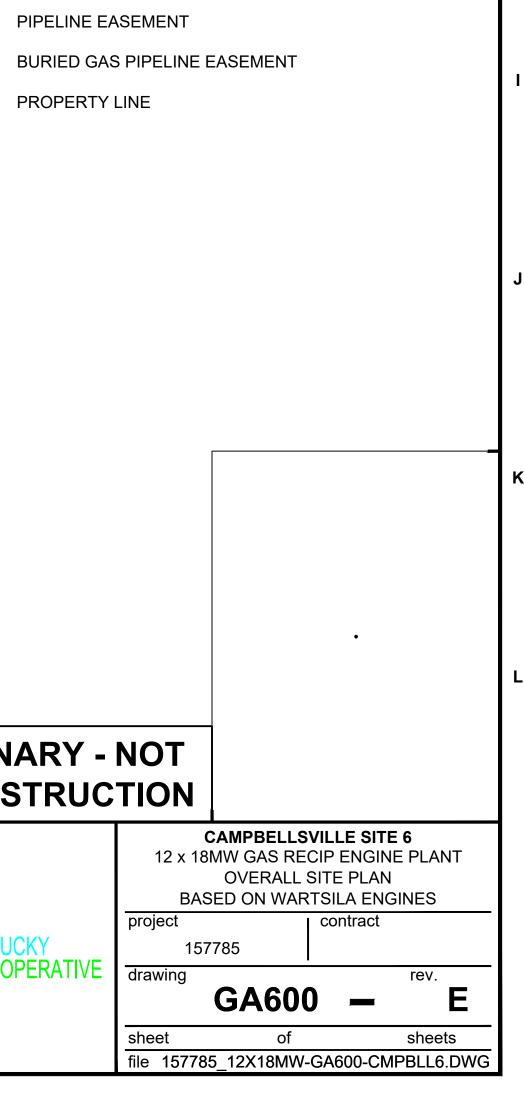
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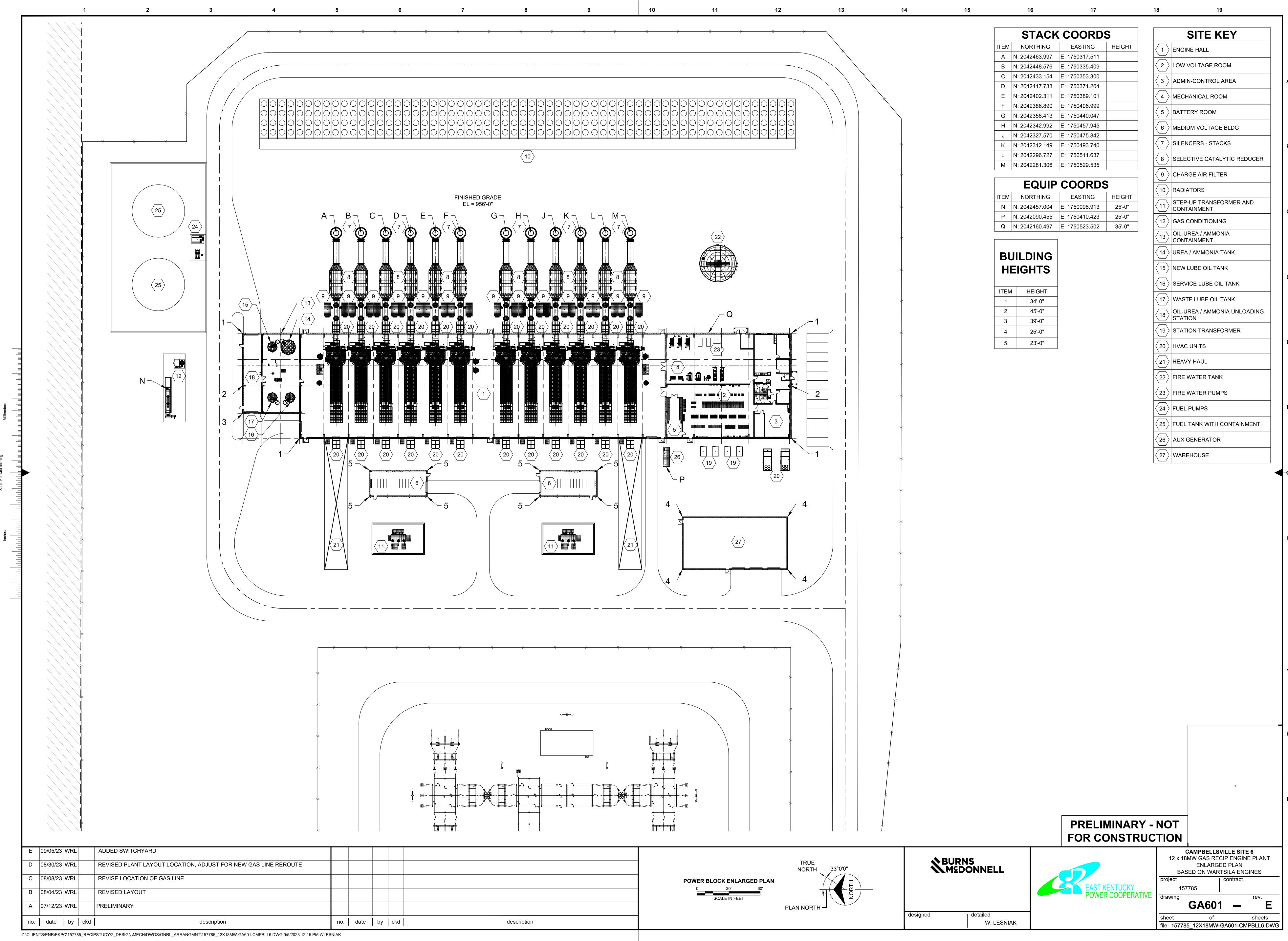
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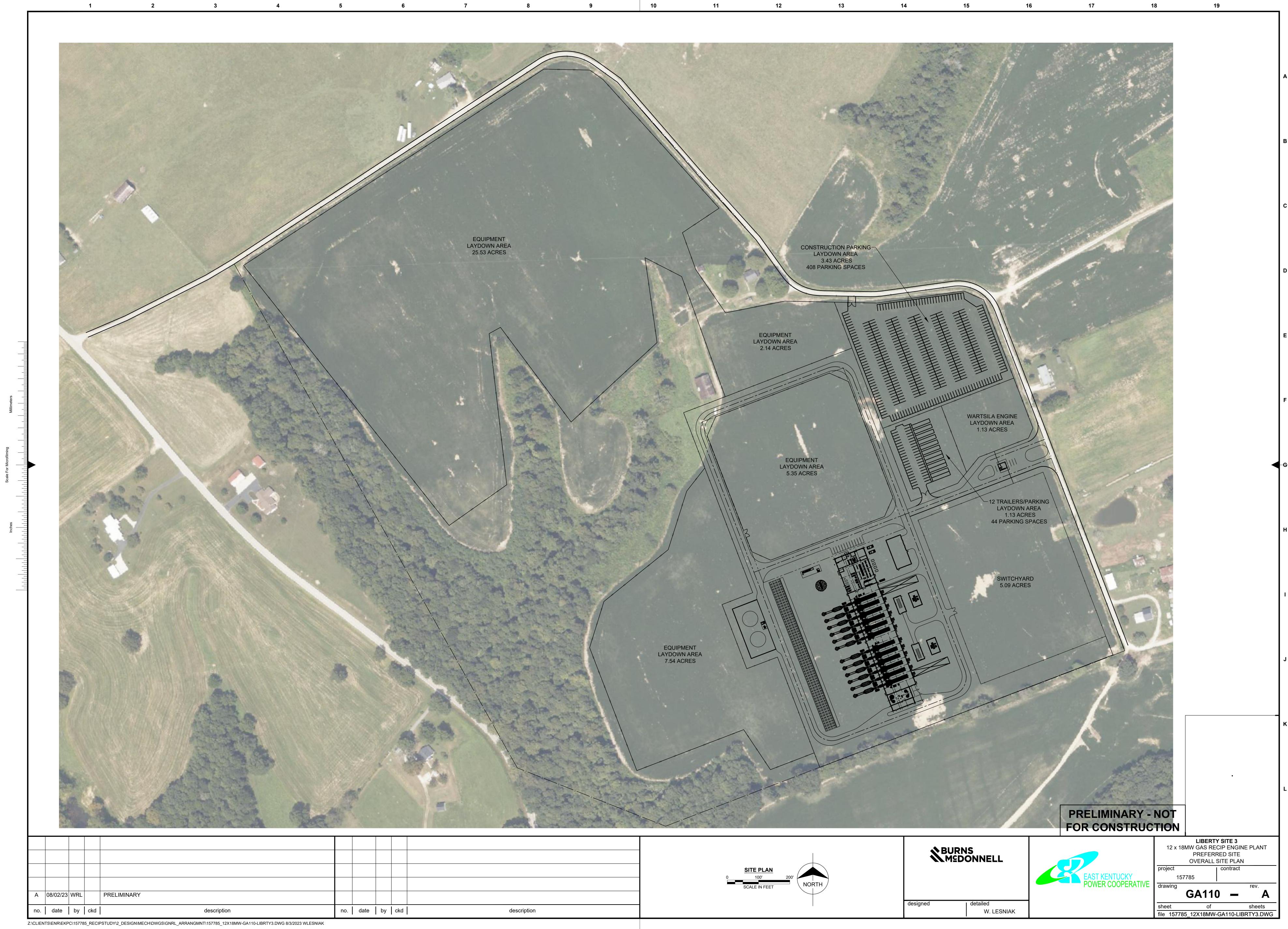
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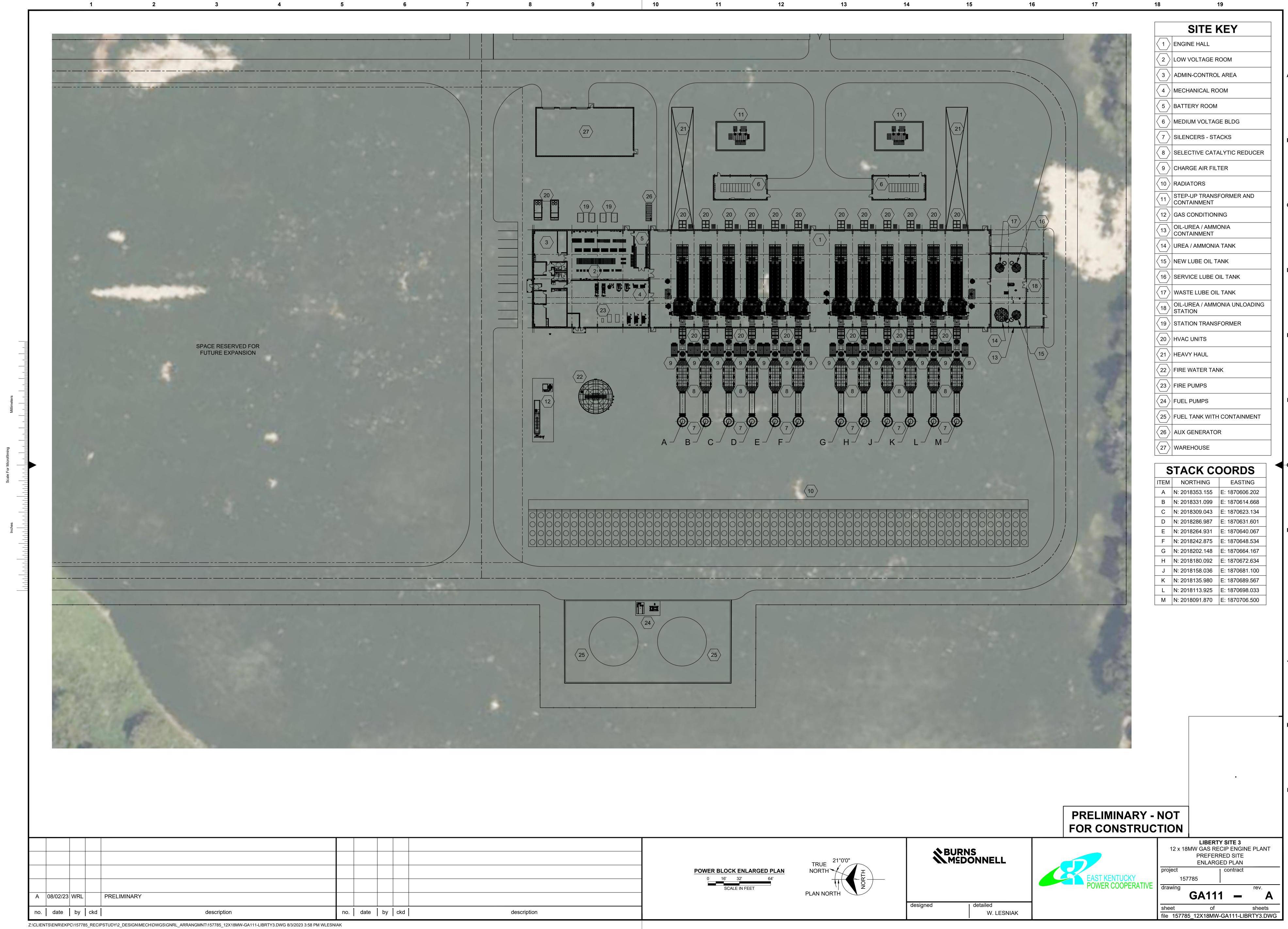
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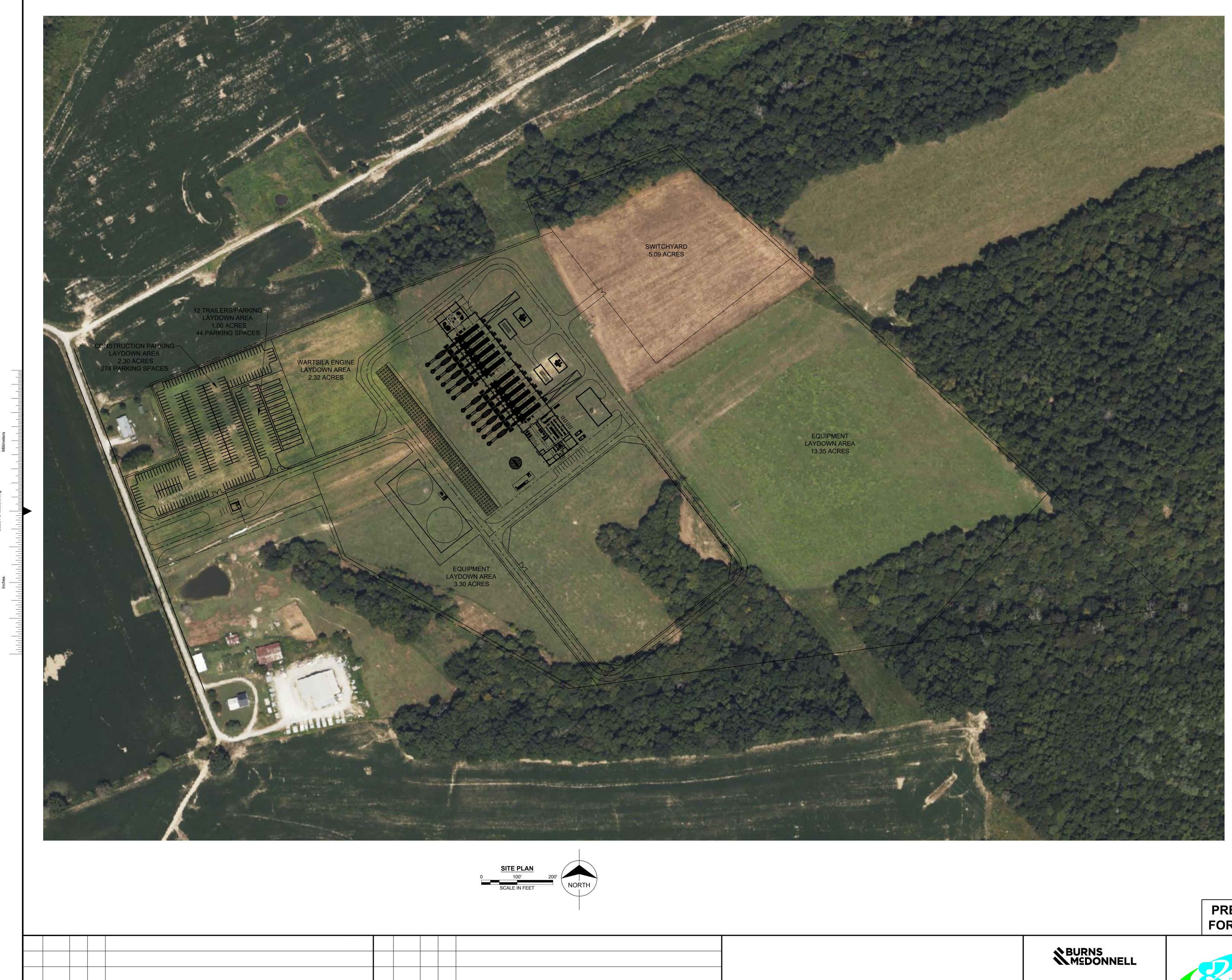


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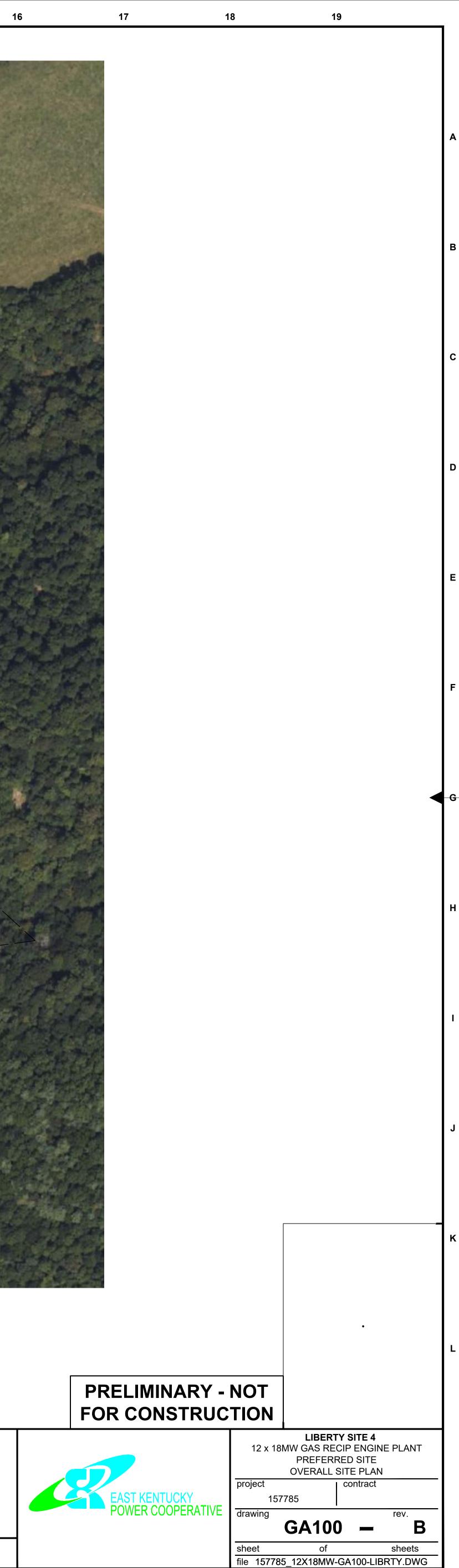
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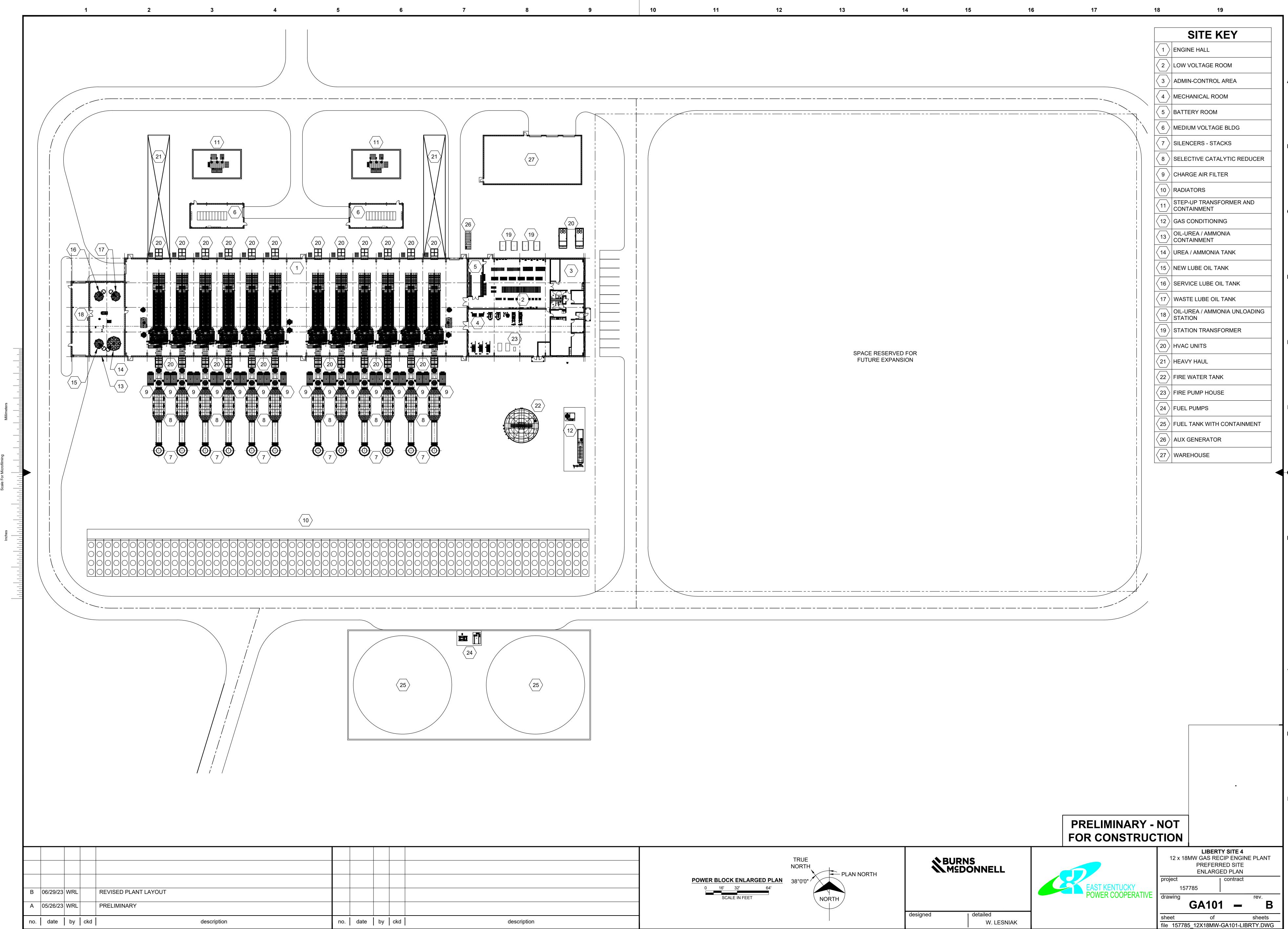
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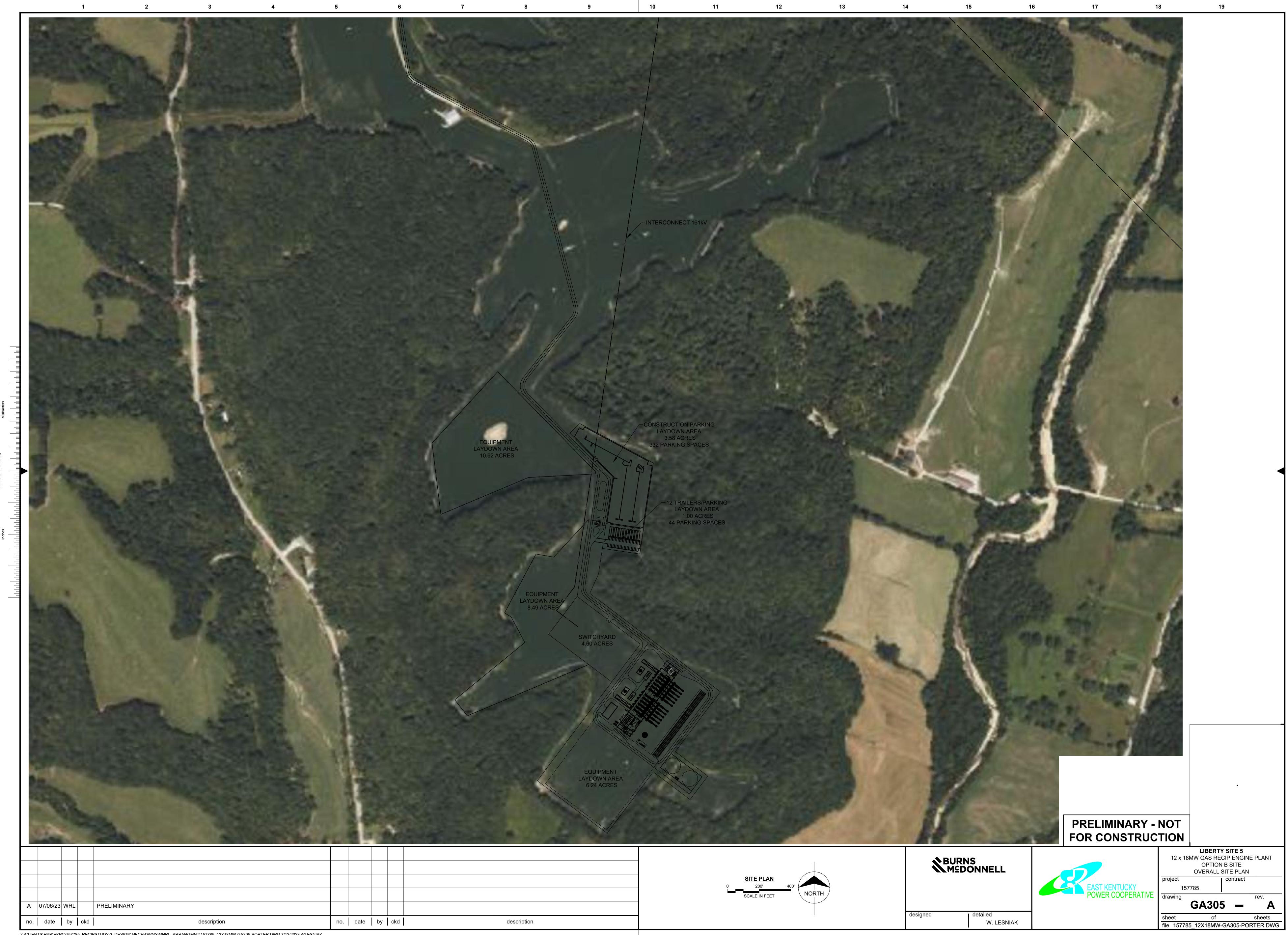




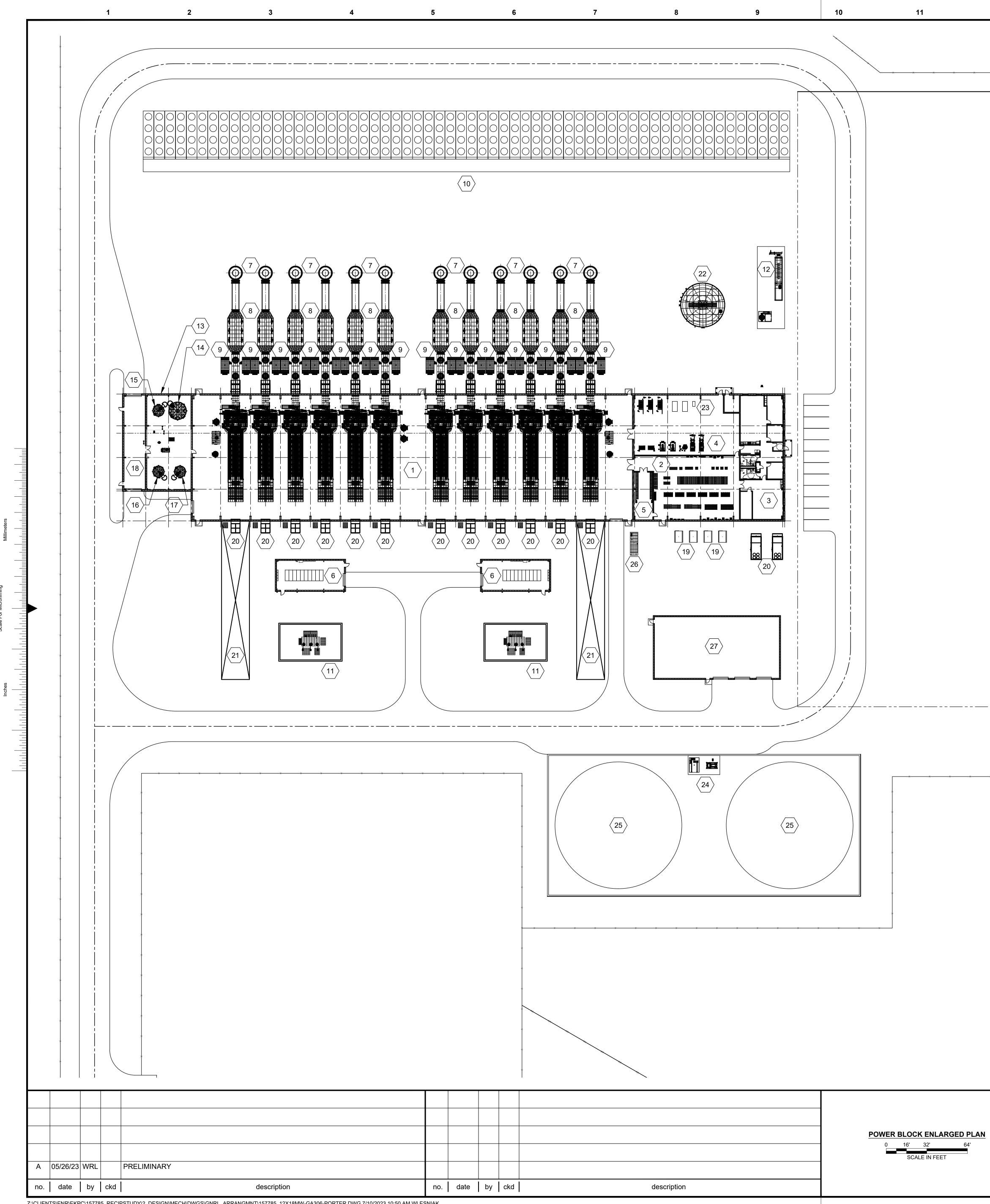
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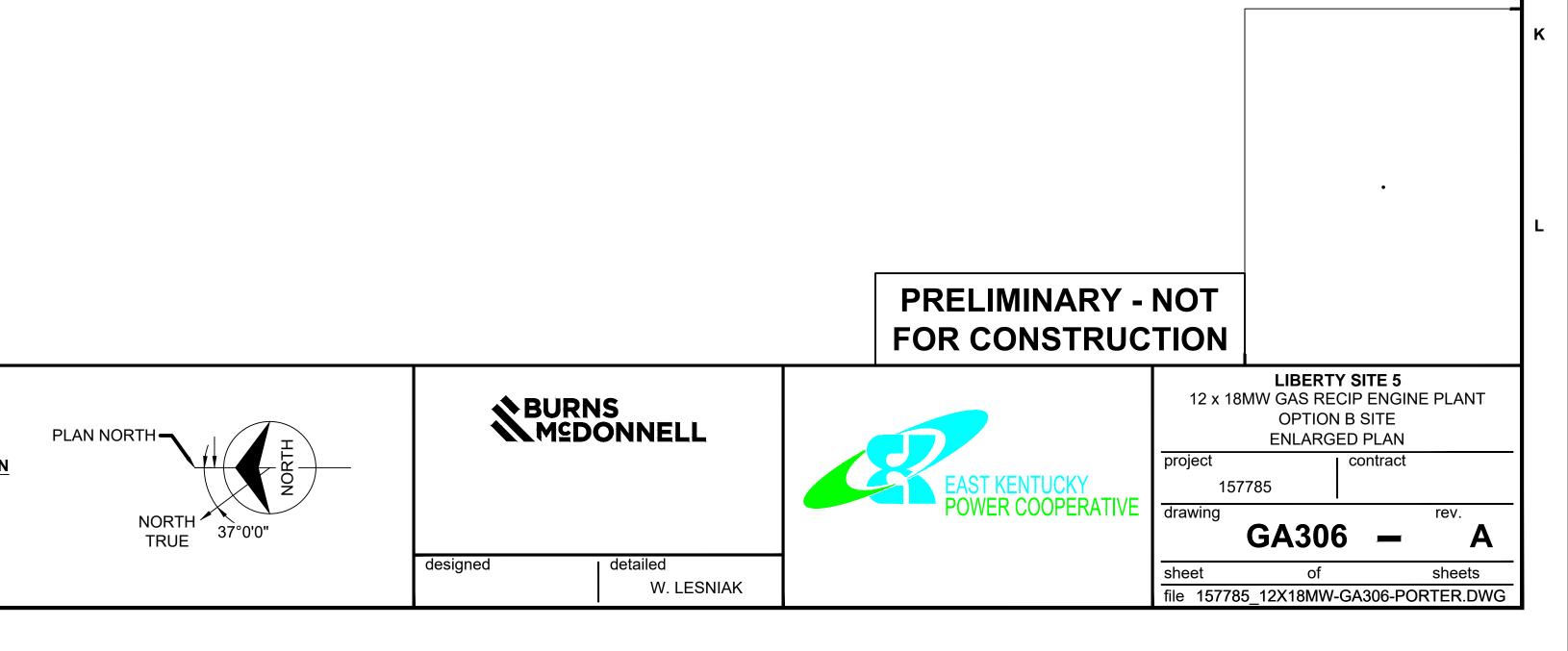


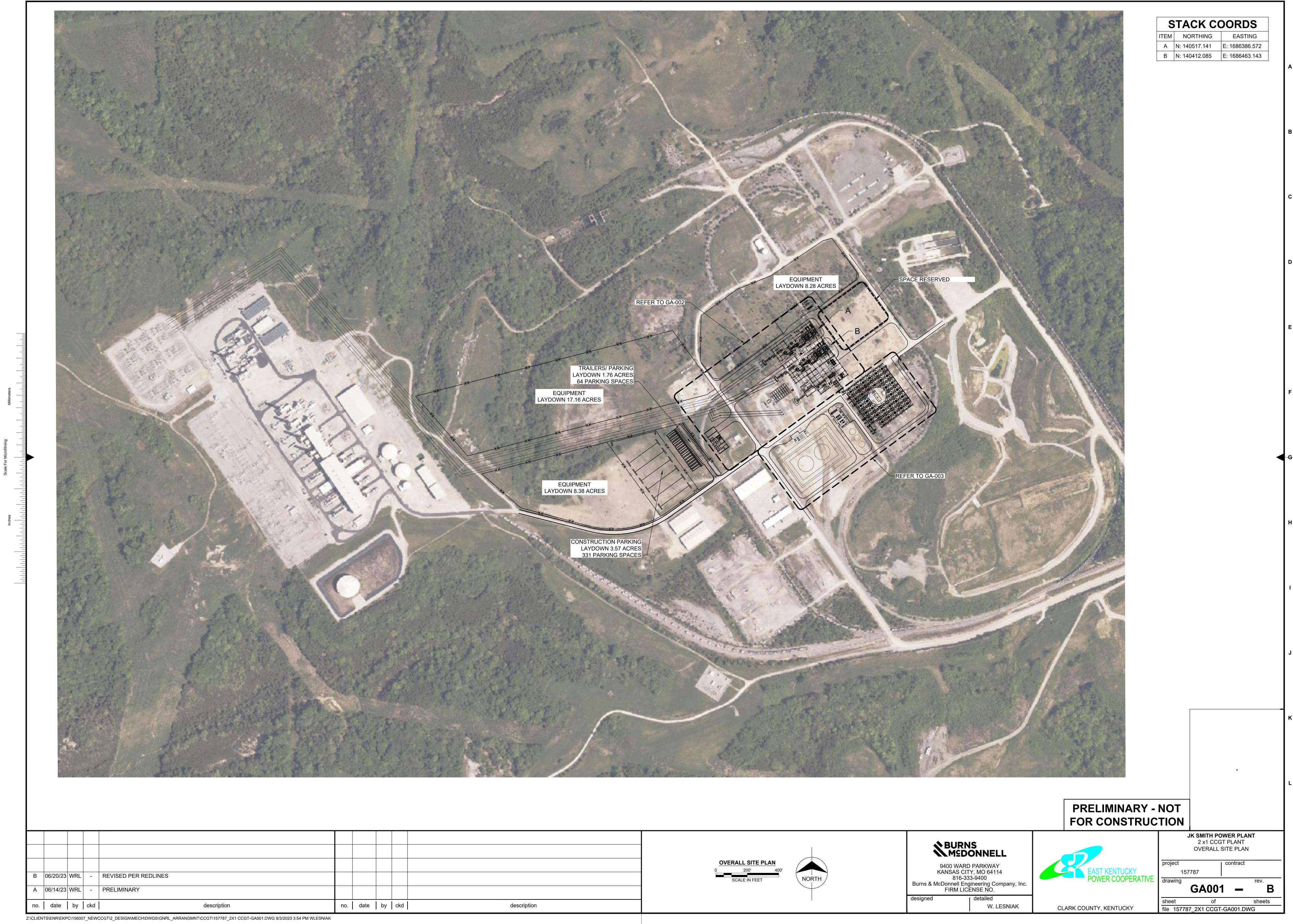
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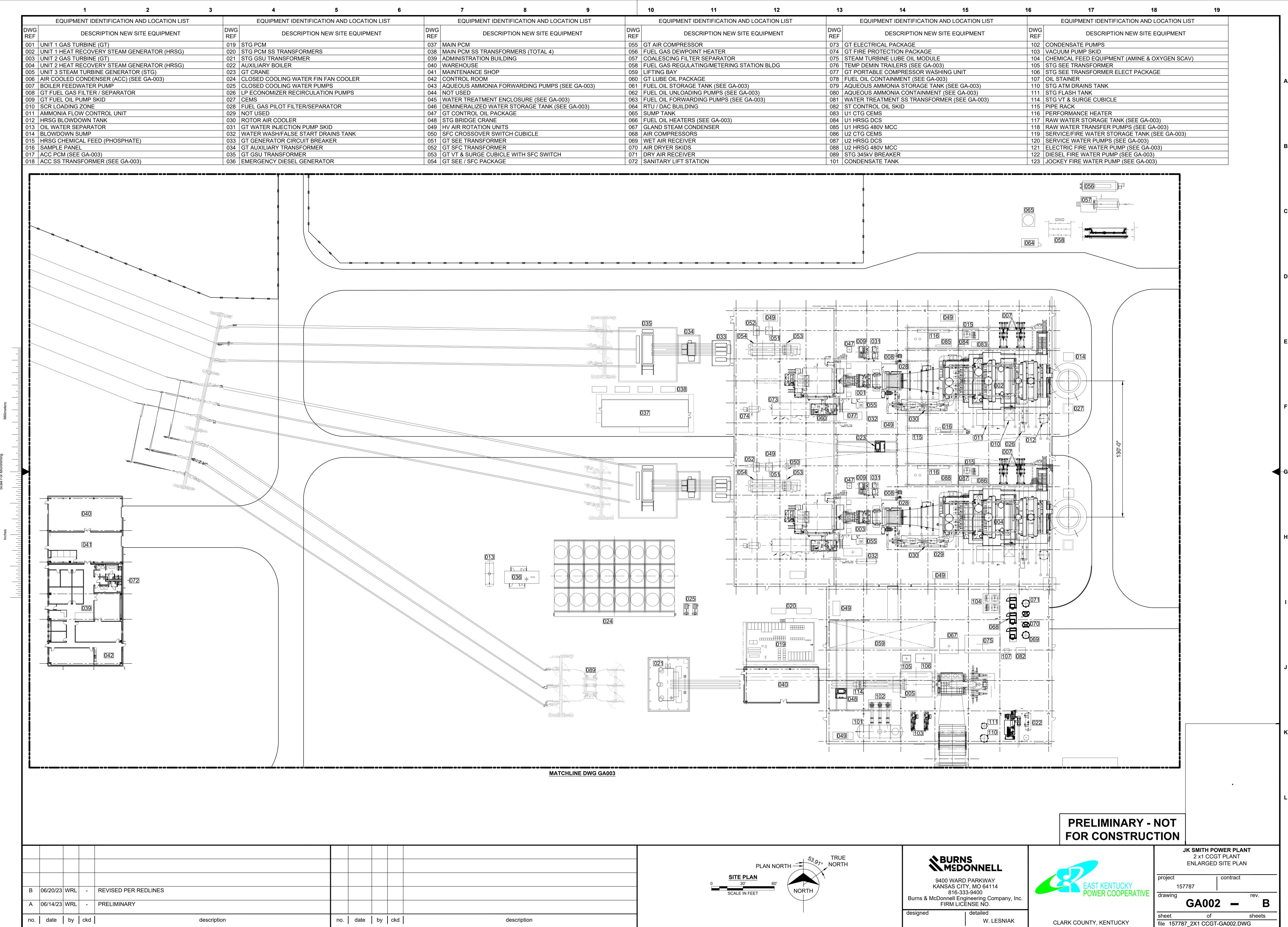




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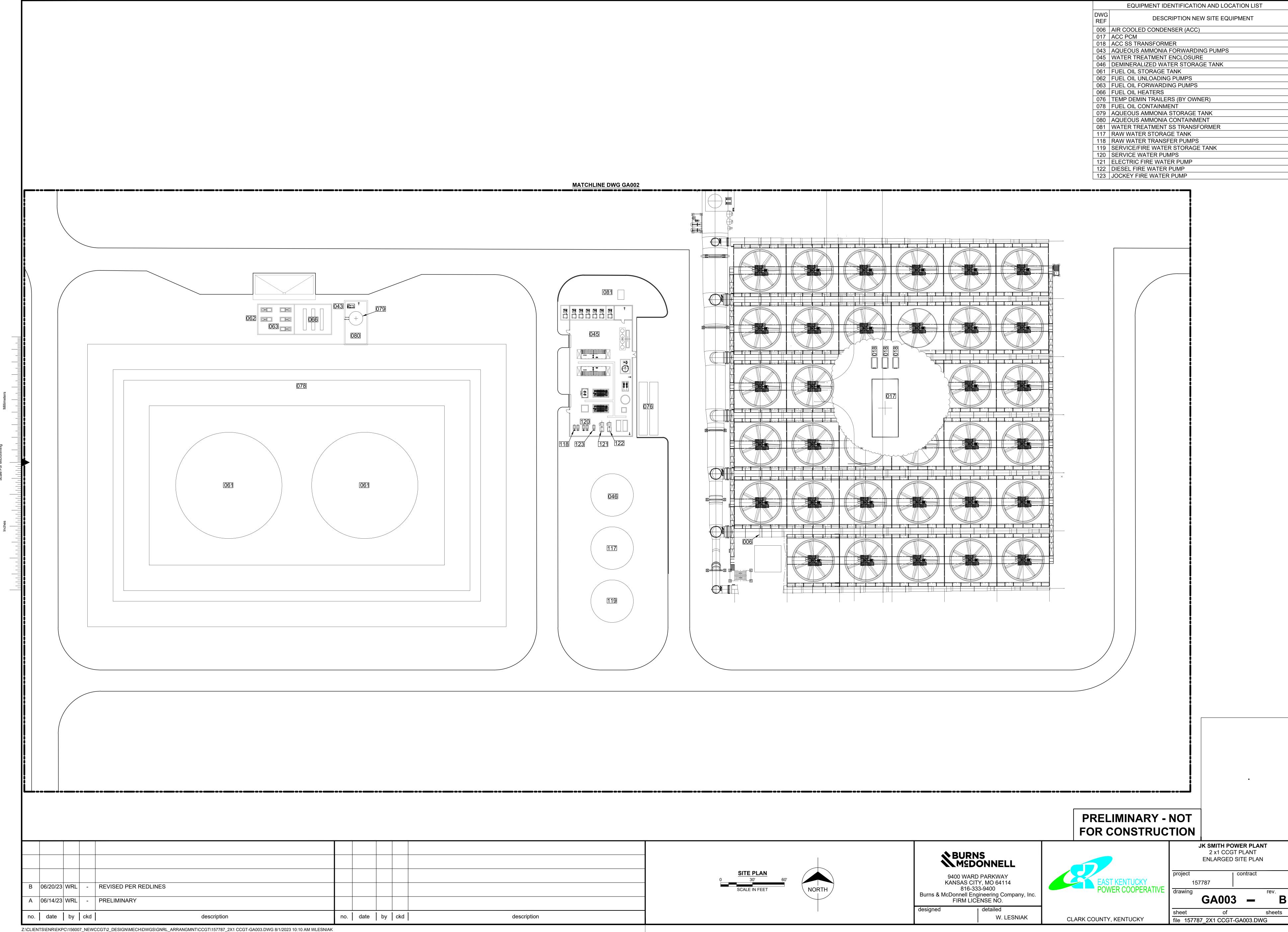
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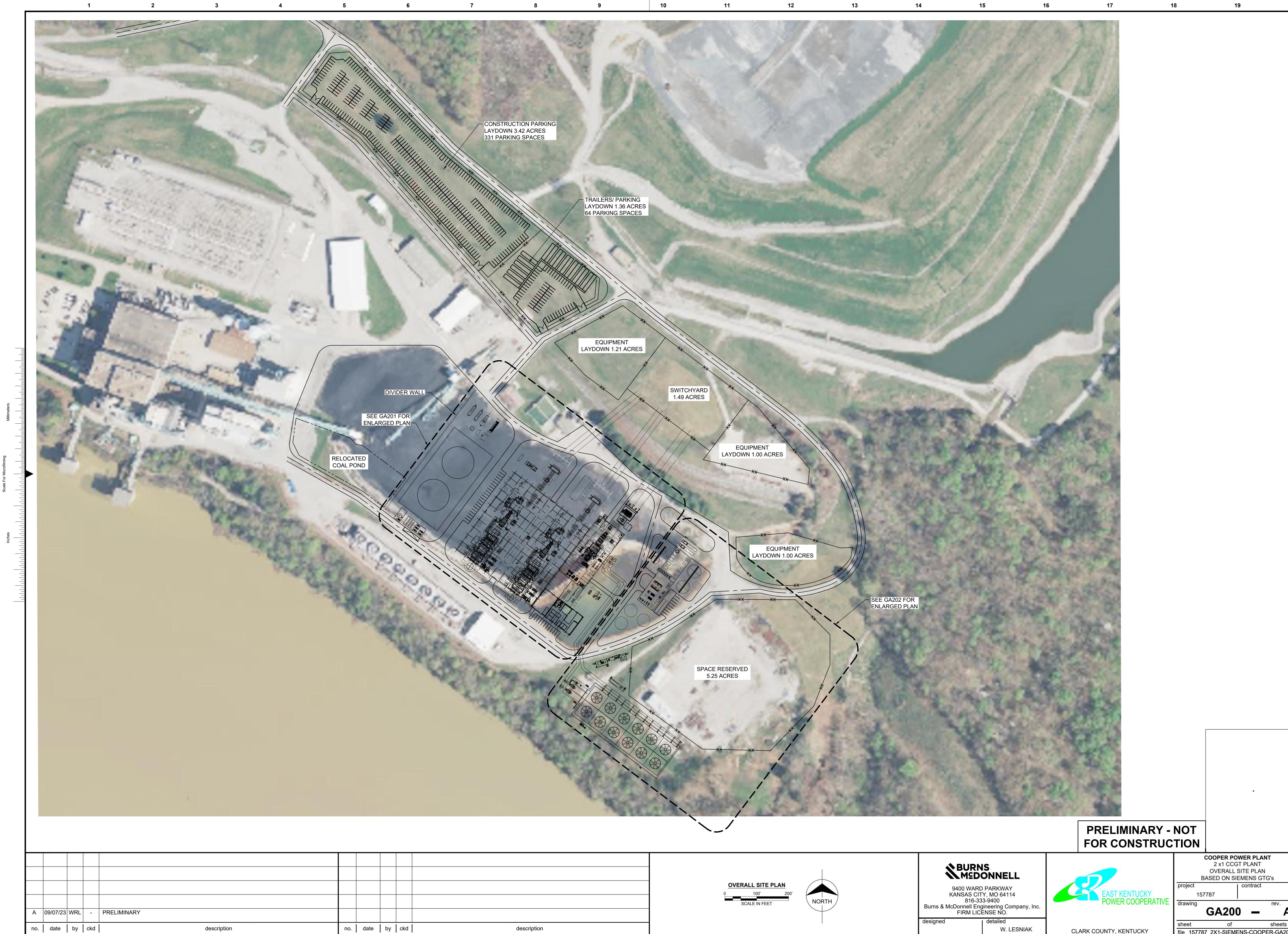
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	037 N	MAIN PCM			055	GT AIR COMPRESSO	DR		073	3 G	T ELECTRICAL PACKAGE		102	CONDENSAT	E PUMPS	
		MAIN PCM SS TRANSFORM	IERS (TOTAL 4)		056	FUEL GAS DEWPOIN	IT HEATER				T FIRE PROTECTION PACH	KAGE		VACUUM PU		
	039 /	ADMINISTRATION BUILDIN	G		057	COALESCING FILTER	R SEPARATOR		075	5 S	TEAM TURBINE LUBE OIL I	MODULE	104	CHEMICAL F	EED EQUIPMEN	T (AMINE & OX
	040 V	VAREHOUSE			058	FUEL GAS REGULAT	ING/METERING ST	ATION BLDG	076	6 TI	EMP DEMIN TRAILERS (SE	E GA-003)	105	STG SEE TR	ANSFORMER	
	041 N	MAINTENANCE SHOP			059	LIFTING BAY			077	7 G	T PORTABLE COMPRESSO	DR WASHING UNIT	106	STG SEE TR	ANSFORMER EL	ECT PACKAGE
	042 0	CONTROL ROOM			060	GT LUBE OIL PACKA	GE		078	8 FI	UEL OIL CONTAINMENT (S	EE GA-003)	107	OIL STAINER		
	043 /	QUEOUS AMMONIA FOR	VARDING PUMPS (S	EE GA-003)	061	FUEL OIL STORAGE	TANK (SEE GA-003	3)	079	9 A	QUEOUS AMMONIA STOR	AGE TANK (SEE GA-003)	110	STG ATM DR	AINS TANK	
	044 1	NOT USED	, , , , , , , , , , , , , , , , , , ,		062	FUEL OIL UNLOADIN	IG PUMPS (SEE GA	-003)	080	0 A	QUEOUS AMMONIA CONT	AINMENT (SEE GA-003)	111	STG FLASH	ANK	
	045 V	VATER TREATMENT ENCL	OSURE (SEE GA-00	3)	063	FUEL OIL FORWARD	ING PUMPS (SEE C	GA-003)	081	1 W	ATER TREATMENT SS TRA	ANSFORMER (SEE GA-003)	114	STG VT & SU	RGE CUBICLE	
	046 [DEMINERALIZED WATER S	TORAGE TANK (SEE	GA-003)	064	RTU / DAC BUILDING	3	·	082	2 S ⁻	T CONTROL OIL SKID	· · · ·	115	PIPE RACK		
	047 0	GT CONTROL OIL PACKAG	E	·	065	SUMP TANK			083	3 U	1 CTG CEMS		116	PERFORMAN	ICE HEATER	
	048 5	STG BRIDGE CRANE			066	FUEL OIL HEATERS	(SEE GA-003)		084	4 U	1 HRSG DCS		117	RAW WATER	STORAGE TAN	K (SEE GA-003)
	049 H	IV AIR ROTATION UNITS			067	GLAND STEAM CON	DENSER		085	5 U	1 HRSG 480V MCC		118	RAW WATER	TRANSFER PU	MPS (SEE GA-0
	050 8	SFC CROSSOVER SWITCH	CUBICLE		068	AIR COMPRESSORS			086	6 U	2 CTG CEMS		119	SERVICE/FIR	E WATER STOF	AGE TANK (SEI
	051 0	GT SEE TRANSFORMER			069	WET AIR RECEIVER			087	7 U	2 HRSG DCS		120	SERVICE WA	TER PUMPS (SE	E GA-003)
	052 0	GT SFC TRANSFORMER			070	AIR DRYER SKIDS			088	8 U	2 HRSG 480V MCC		121	ELECTRIC FI	RE WATER PUN	P (SEE GA-003)
	053 0	GT VT & SURGE CUBICLE	NITH SFC SWITCH		071	DRY AIR RECEIVER					TG 345kV BREAKER		122	DIESEL FIRE	WATER PUMP (SEE GA-003)
	054 0	GT SEE / SFC PACKAGE			072	SANITARY LIFT STAT	TION		101	1 C	ONDENSATE TANK		123	JOCKEY FIRI	E WATER PUMP	(SEE GA-003)
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CLARK COUNTY, KENTUCKY



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			SCALE IN FEET
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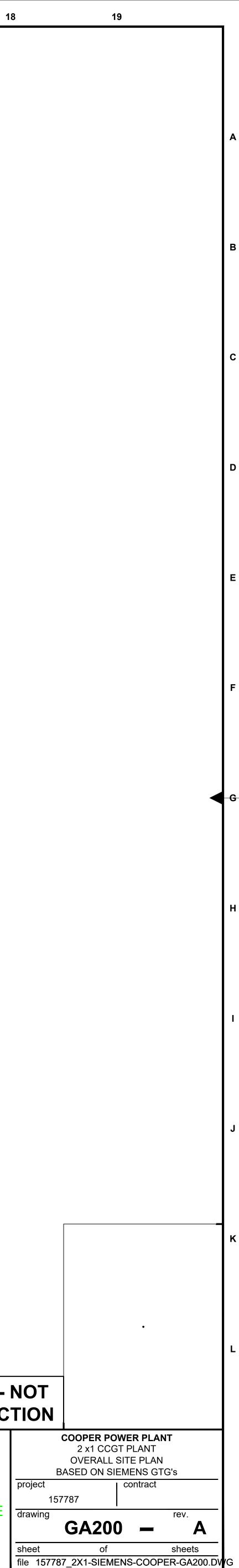


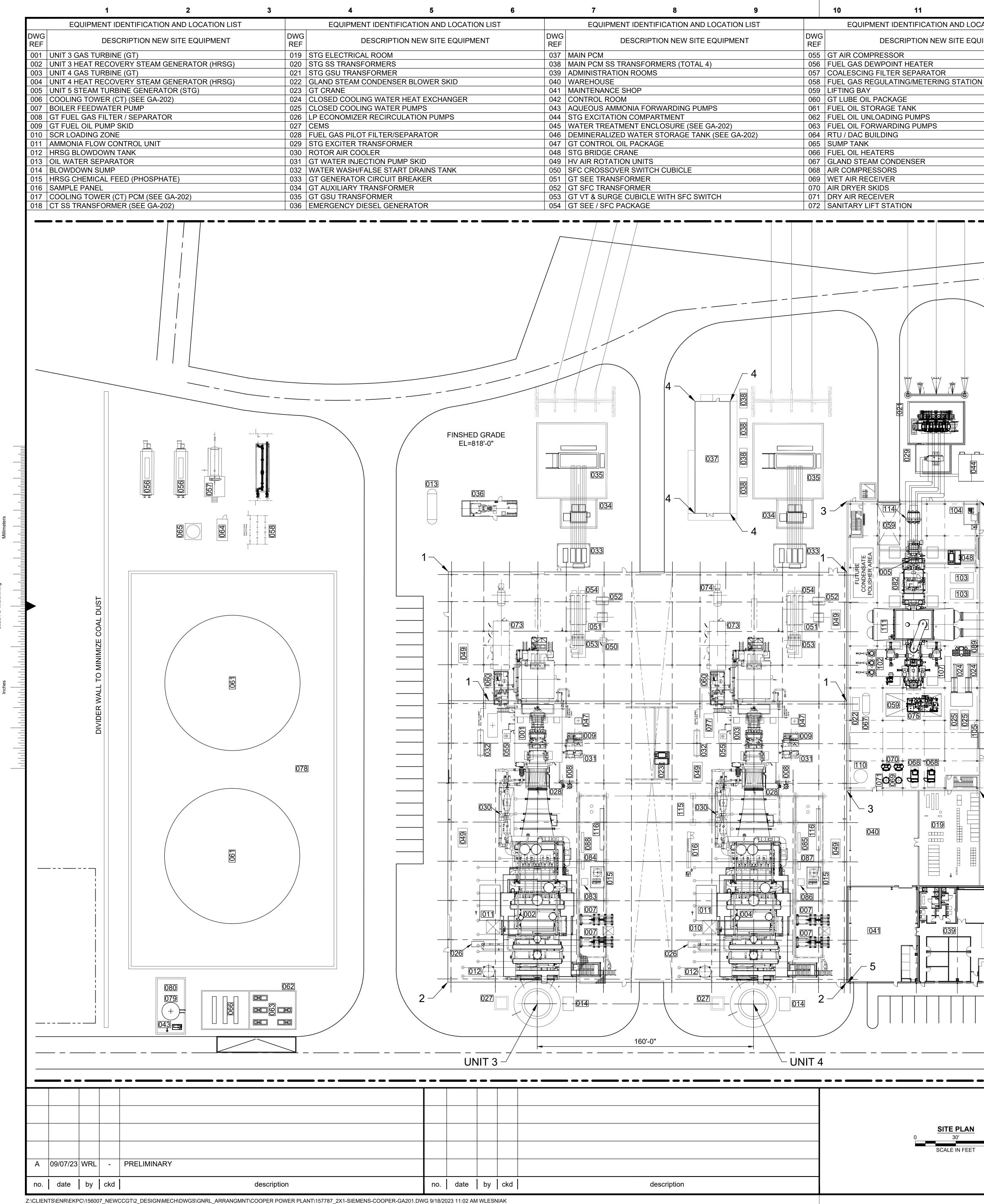
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EAST KENTUCKY POWER COOPERATIVE

CLARK COUNTY, KENTUCKY





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	074		I PACKAGE		101 102 103	CONDENSER VACUUM PUMP	>
IN BLDG	076	TEMP DEMIN TRAILER	RS (SEE GA-202)	UNIT	104	CHEMICAL FEED EQUIPMEN	
	078	FUEL OIL CONTAINME	INT		106	CLOSED COOLING WATER H	IEAD TANK
	080	AQUEOUS AMMONIA	CONTAINMENT	GA-202)	110	STG ATM DRAINS TANK CONDENSER	
	082	ST SEAL OIL SKID U3 CTG CEMS		,	114	STG VT & SURGE CUBICLE PIPE RACK	
	084	U3 HRSG DCS U3 HRSG 480V MCC				PERFORMANCE HEATER RAW WATER STORAGE TAN	K (SEE GA-202
	087	U4 CTG CEMS U4 HRSG DCS			119	RAW WATER TRANSFER PUI SERVICE/FIRE WATER STOR	RAGE TANK (SE
					121	ELECTRIC FIRE WATER PUM	1P (SEE GA-202
	091	AUX BOILER BLOWDO			123	JOCKEY FIRE WATER PUMP	(SEE GA-202)
	093	DEAERATOR AUX BOILER FUEL RE CIRCULATING WATER		202)			IER (SEE GA-2
	095 096	AUXILIARY CIRCULAT	ING WATER PUMP	*	127	SLUDGE HOLDING TANK (SE	E GA-202)
	097	CT ACID STORAGE TA CT SODIUM HYPOCHL	NK (SEE GA-202)	ANK (SEE GA-202)		FILTER PRESS CLOTH WASH	H TANK (SEE G
	<u> </u>					WATER TREATMENT FILTER POLYMER FEED PUMP SKID	
					134	COAGULANT FEED PUMP SK WATER TREATMENT BUILDI	NG AIR RECEIN
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						GAS TURBINE BLDG (2)	39'-0" 97'-0"
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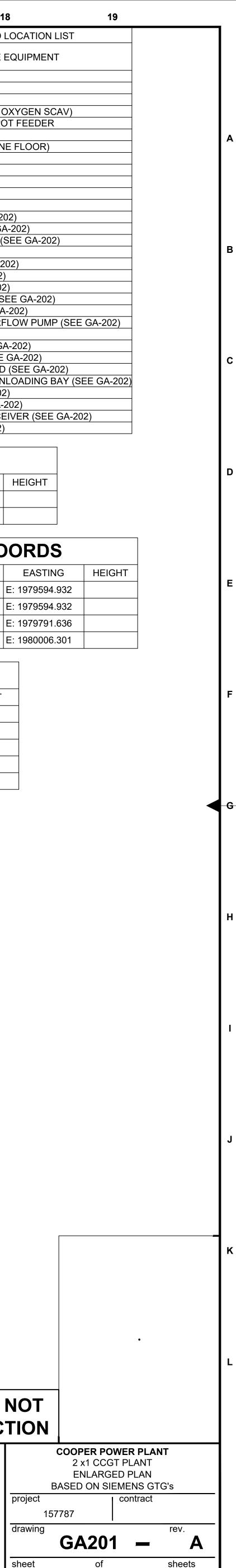
9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Company, Inc. FIRM LICENSE NO. designed detailed

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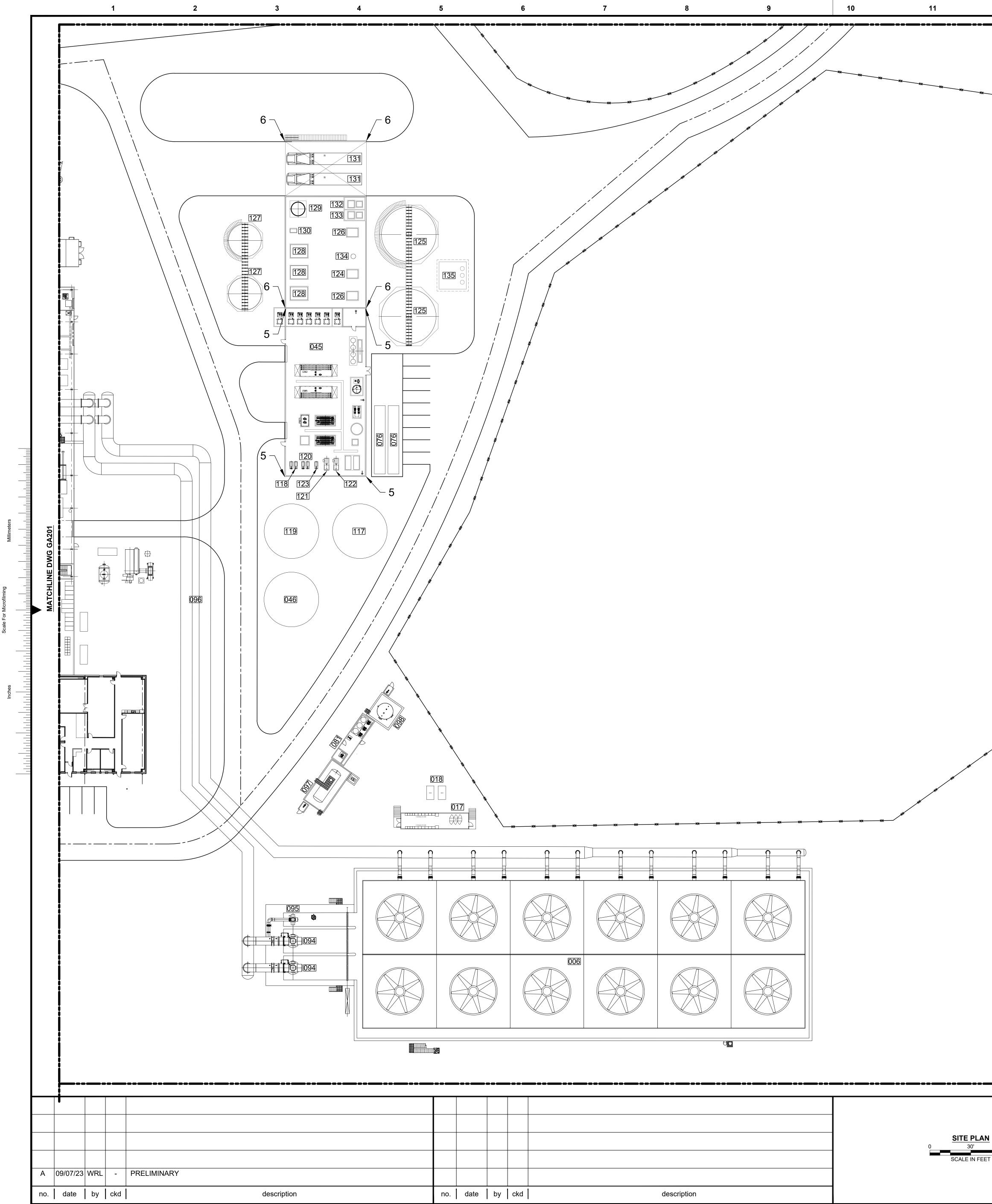
CLARK COUNTY, KENTUCKY

AST KENTUCKY

OWER COOPERATIVE



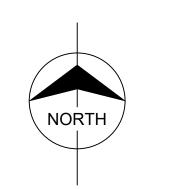
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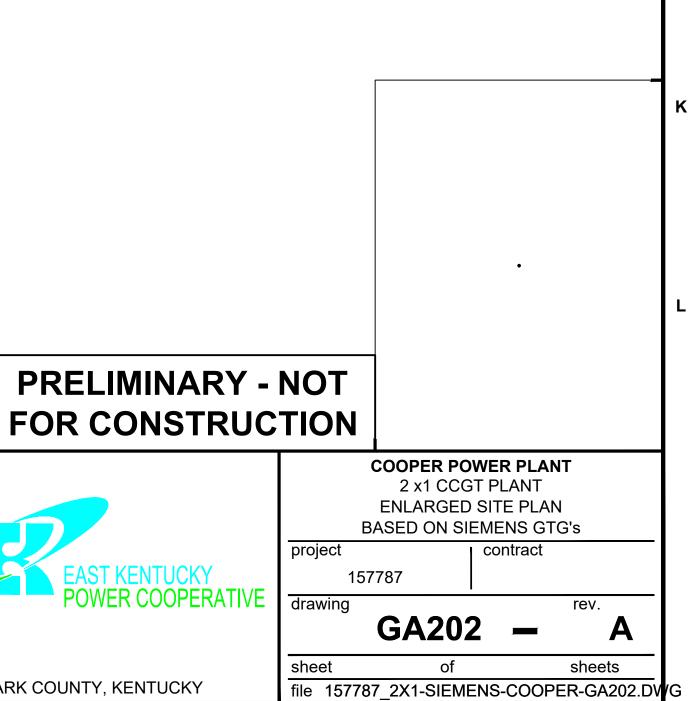
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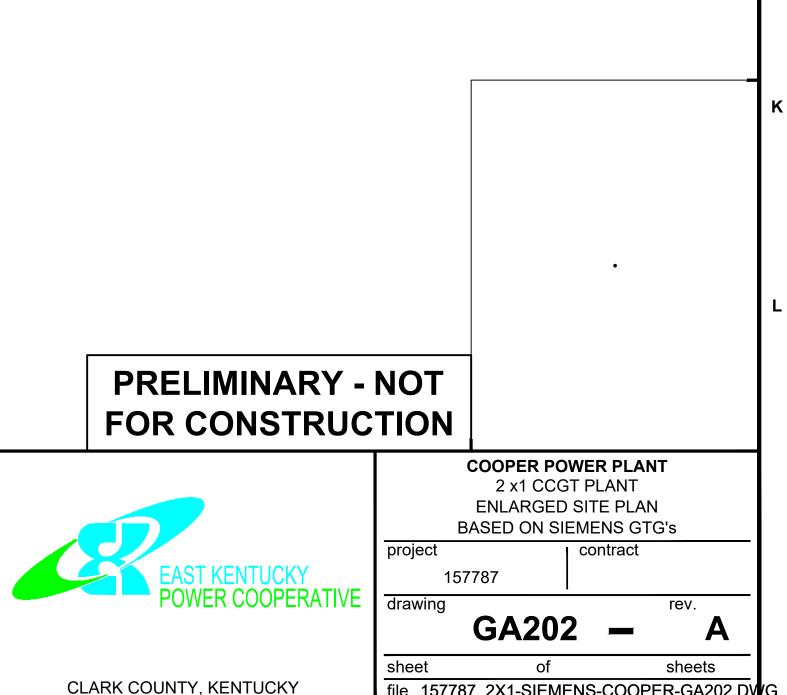




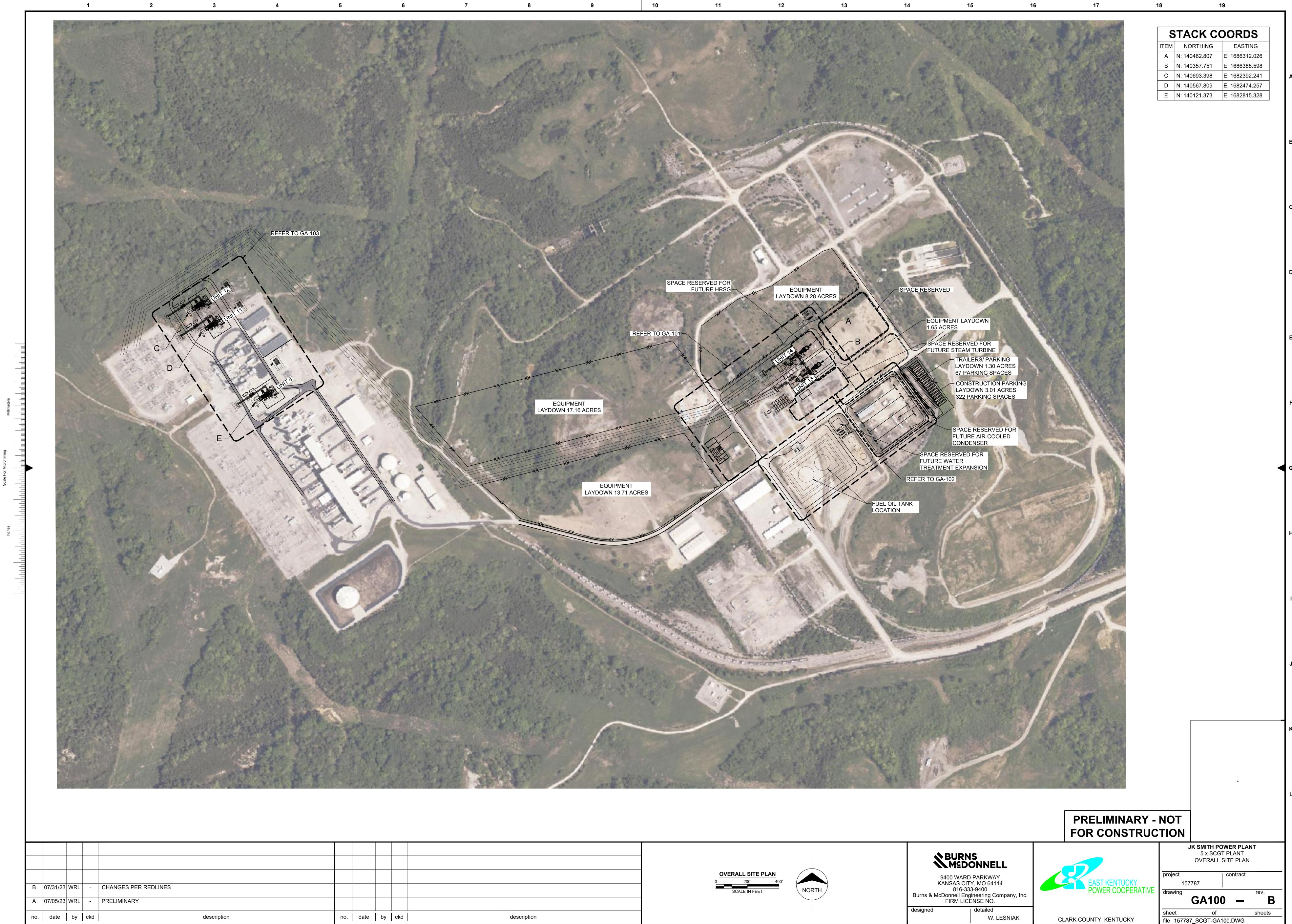
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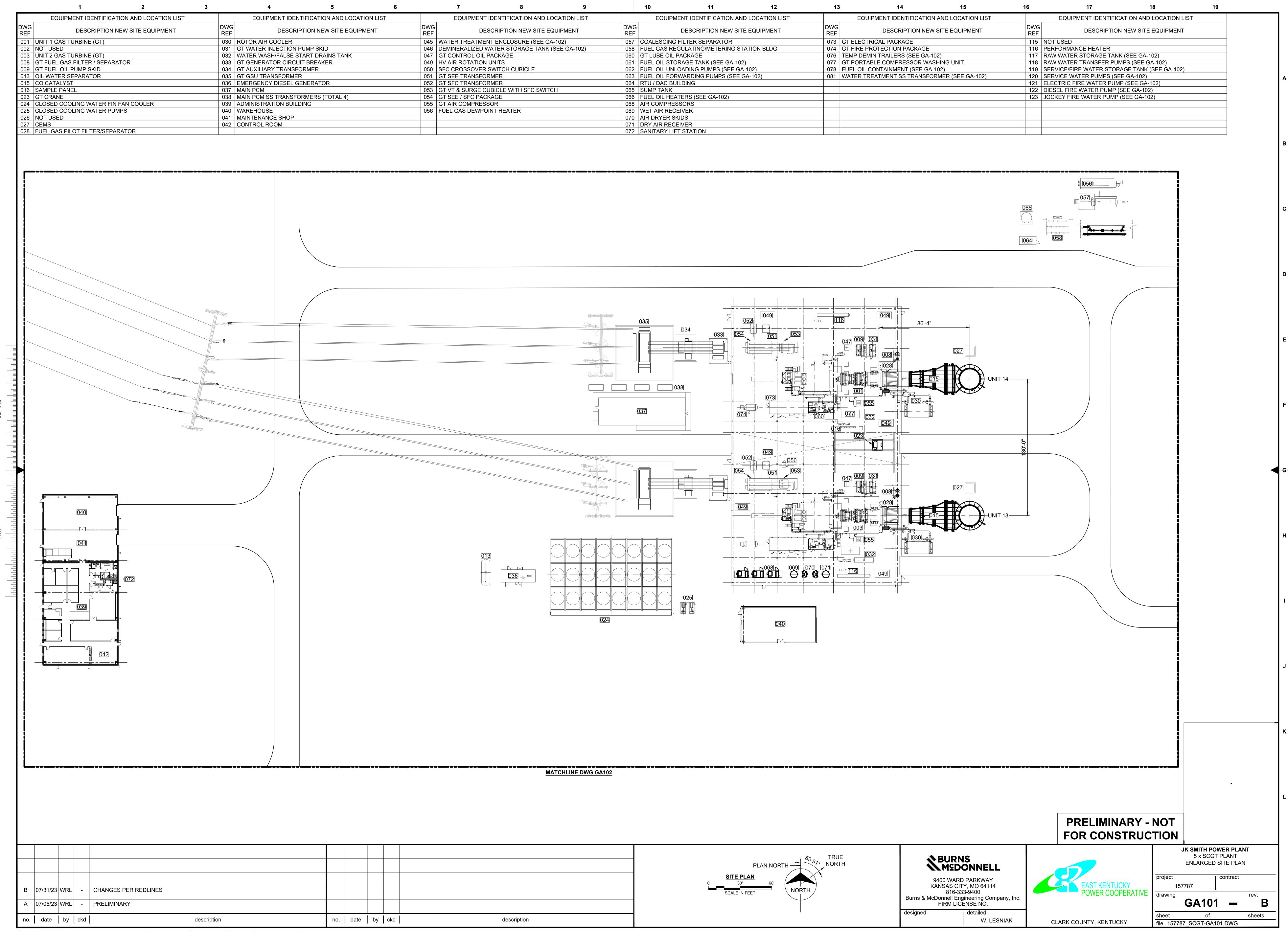
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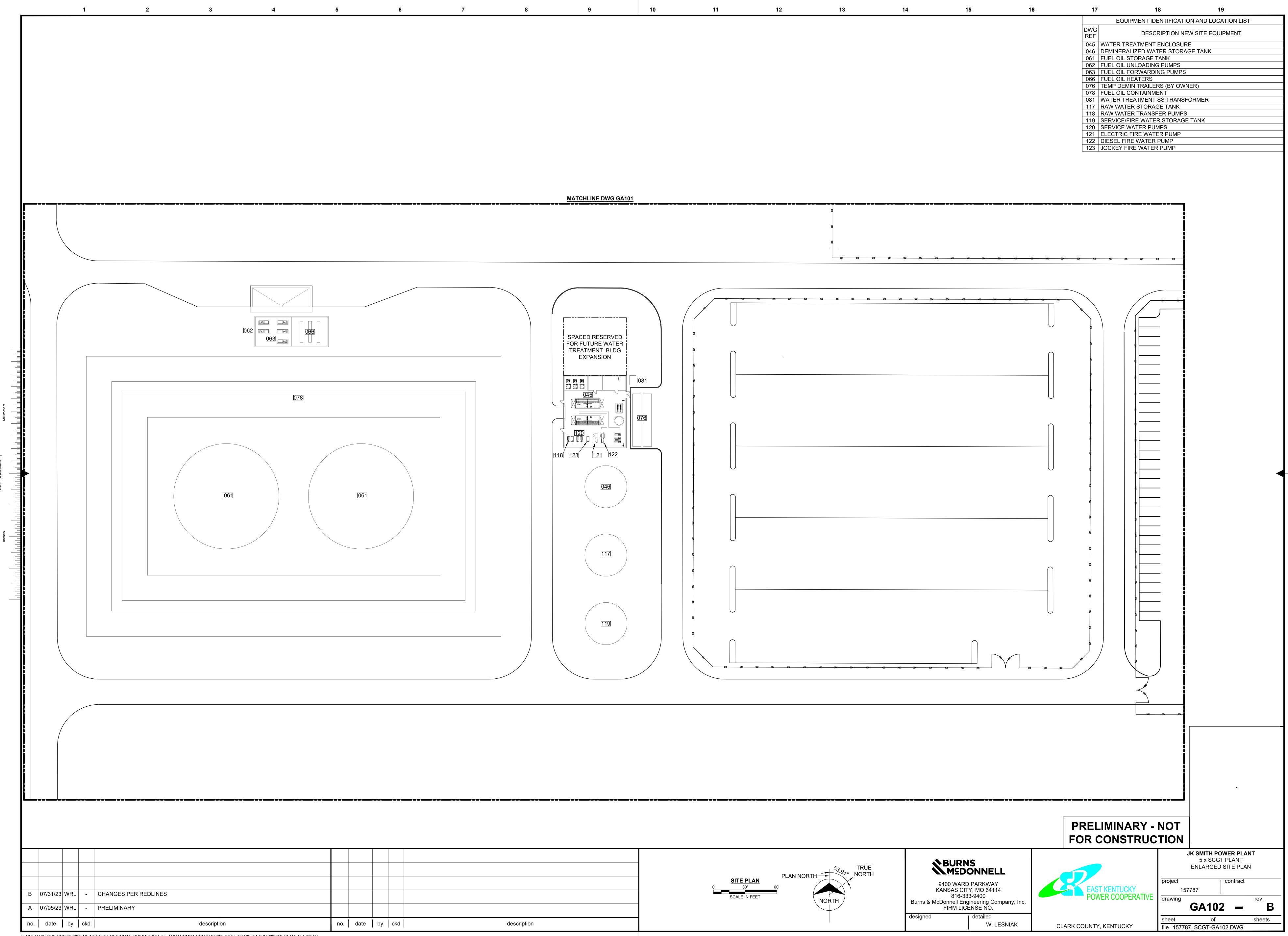
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	045 \	NATER TREATMEN	NT ENCLOSURE (SEE GA	A-102)	057 COALESCINO	G FILTER SEPARATOR		073 G	FELECTRICAL PACKAGE		115	NOT USED	
	046 [DEMINERALIZED W	ATER STORAGE TANK	(SEE GA-102)	058 FUEL GAS R	EGULATING/METERING	STATION BLDG	074 G	FIRE PROTECTION PACKAG	E	116	PERFORMANCE HEATER	2
	047 (GT CONTROL OIL F	PACKAGE	,	060 GT LUBE OIL	PACKAGE		076 TE	MP DEMIN TRAILERS (SEE GA	A-102)	117	RAW WATER STORAGE T	TANK (SEE GA-102)
	049 H	HV AIR ROTATION	UNITS		061 FUEL OIL ST	ORAGE TANK (SEE GA-1	02)	077 G	FPORTABLE COMPRESSOR V	ASHING UNIT	118	RAW WATER TRANSFER	PUMPS (SEE GA-10
	050 \$	SFC CROSSOVER	SWITCH CUBICLE		062 FUEL OIL UN	LOADING PUMPS (SEE (GA-102)	078 Fl	JEL OIL CONTAINMENT (SEE C	GA-102)	119	SERVICE/FIRE WATER ST	TORAGE TANK (SEE
	051 (GT SEE TRANSFOF	RMER		063 FUEL OIL FO	RWARDING PUMPS (SEE	E GA-102)	081 W	ATER TREATMENT SS TRANS	FORMER (SEE GA-102)	120	SERVICE WATER PUMPS	S (SEE GA-102)
	052 (GT SFC TRANSFOF	RMER		064 RTU / DAC B	UILDING					121	ELECTRIC FIRE WATER F	PUMP (SEE GA-102)
	053 (GT VT & SURGE CL	JBICLE WITH SFC SWIT	СН	065 SUMP TANK						122	DIESEL FIRE WATER PUN	MP (SEE GA-102)
	054 (GT SEE / SFC PACH	KAGE		066 FUEL OIL HE	ATERS (SEE GA-102)					123	JOCKEY FIRE WATER PU	JMP (SEE GA-102)
	055 (GT AIR COMPRESS	SOR		068 AIR COMPRE	ESSORS							
	056 F	FUEL GAS DEWPOI	INT HEATER		069 WET AIR REG	CEIVER							
					070 AIR DRYER S	SKIDS							
					071 DRY AIR REC	CEIVER							
					072 SANITARY LI	FT STATION							

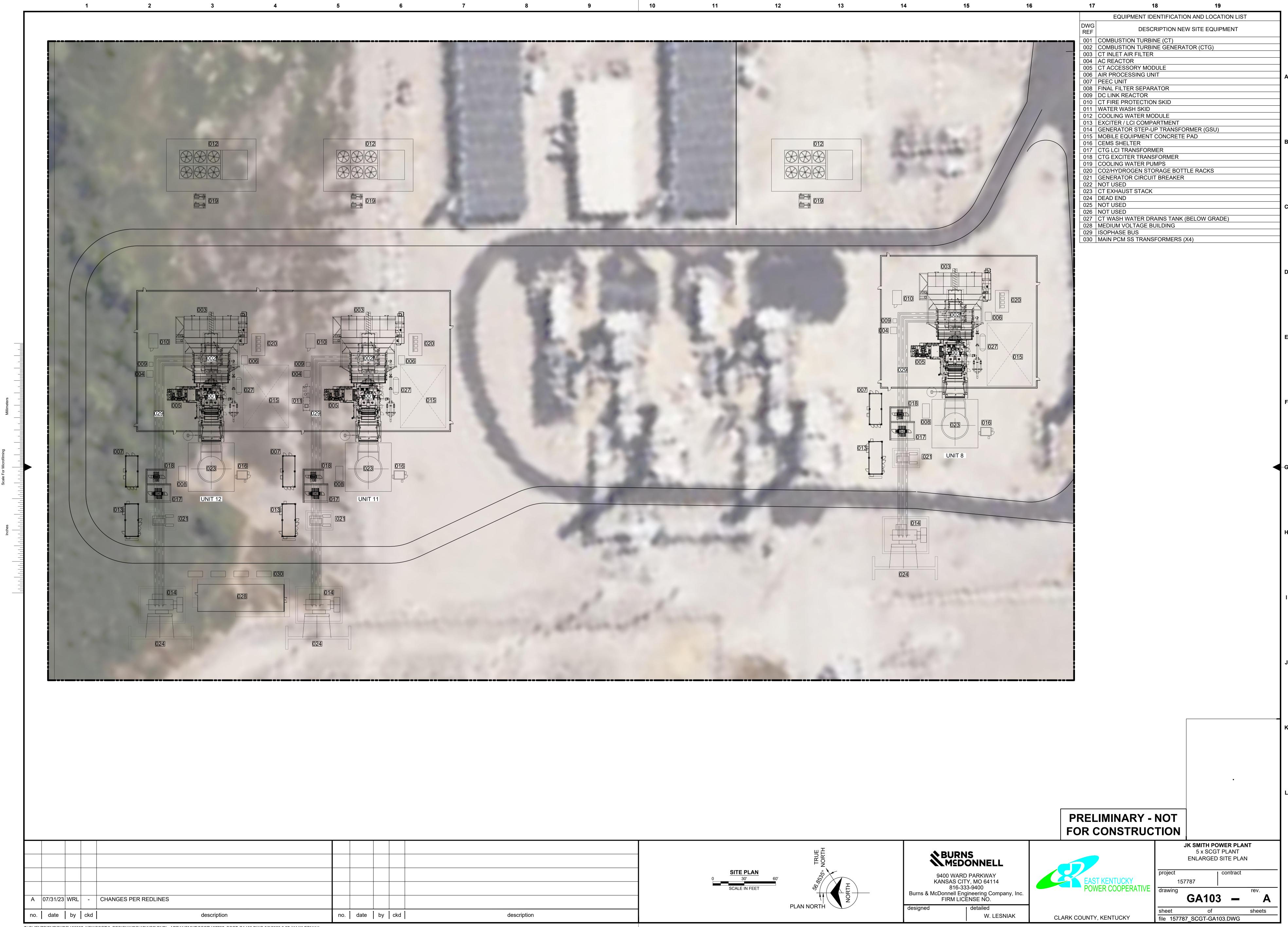


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APPENDIX B – SCOPE ASSUMPTION MATRIX

BURNS

	Y/N	Number	% Capacity (per Unit)	Notes
ENERAL PROJECT INFORMATION			(,	
				New 12x18 MW (or 11x20 MW) Reciprocating Internal Combustion Engine (RICE) Generato
				plant including all auxiliary equpment. Gross output with all engines at 100% capacity at
				summer design conditions shall be 216 MW (or 220 MW). Engines and most equipment w
Project Description	-	-	-	be stored indoors.
Project Location Site Description	-	-	-	Near Liberty, KY Greenfield site
Design Fuel	-	-	-	New natural gas pipeline feed with fuel oil storage tanks on site for backup
Operation		-	-	Peaking as required, but can be utilized for continuous service
Capacity Factor	-	-	-	20%
Contracting Approach	-	-	-	EpCm (Procurement managed by BMcD, on Owner books)
Labor	-	-	-	Union or Non-Union
Project Liquidated Damages	-	-	-	Schedule and performance for each contract
Project Bonding /LOC	-	-	-	100% Bonding.
Project COD Dates	-	-	-	May 2030
Project Expansion	-	-	-	Future Expansion space considered to the north of the proposed building location.
Future Fuels Consideration	-	-	-	Equipment not sized for future expansion. Provide option pricing for Hydrogen rated piping
AECHANICAL SYSTEMS/EQUIPMENT			-	
LOSED COOLING WATER			[
Cooling/Maintenance Water Tank	Y	2	100%	
Cooling Water Transfer pump	Y	2	100%	
Radiators	Y	12	100%	5 blocks per engine
Expansion Vessels	Y	12	100%	1 x 100% per generator
COMPRESSED AIR		-		
Instrument Air Compressors	Y	3	50%	et adam adam ata ata ata ata ata ata ata ata ata a
Starting Air Compressors Air Dryers	Y	3	50% 100%	Sized to reload starting air bottles within 1.5 hours
Wet Receiver	Y	1	100%	
Dry Receiver	Y	2	100%	
			100/0	Sized for 1 engine start per Engine for facility (assuming starting air compressors not
Starting Air Receivers	Y	4	33%	operating)
Engine Hall Pressure Regulating Valves	Y	2	100%	
XHAUST				
Exhaust Gas Module (EGM)	Y	12	100%	1 x 100% per generator
Selective Catalytic Reducer (SCR)	Y	12	100%	1 x 100% per generator
Exhaust Gas Probe	Y	12	100%	1 x 100% per generator
Exhaust Gas (NOx) Analyzer NOx Sensor System	Y Y	12 12	100% 100%	1 x 100% per generator
Exhaust Silencer/Stack	Y	12	100%	1 x 100% per generator 1 x 100% per generator
IRE PROTECTION SYSTEM		12	100%	
Design Basis	Y	-	-	NFPA 850, NFPA 37, and NFPA 30 recommended practices
Insurer/special requirements	Y	-	-	FM Global
				Water and alarm. Engine Hall to be sprinkled and supplied with fire extinguishers, detecto
RICE Fire Protection	Y	-	-	and alarms
Electrical Rooms	Y	-	-	CO2 and alarm
				Electric motor and Diesel driven fire pump taking suction from the Service/Fire Water
Pump supply source(s)	Y	2	100%	Storage Tank. Jockey maintenance pump to maintian line pressure.
Storage	Y Y	-	-	Fire Water Storage Tank. Insulated with immersion heater
Fire loop	Y	-	-	Standalone fire loop, HDPE meeting NFPA Provided for occupied buildings per NFPA 13 including Engine Hall, admin/office/control
Sprinklers	Y	_	-	rooms, restrooms, mechanical room and warehouse space.
Fire/Gas Detection	Y	-	-	Where necessary per NFPA
UEL GAS		+		
Supply Source	-	-	-	New pipeline from TN Gas
Compression	N	-	-	Transfer of custody point provides gas at 200 psig, 55 degF.
				Provided, owned and operated by Pipeline Owner. Plant designed to support load change
Metering & Regulation Yard	Y	2	100%	capability (ramp rate) from minimum load to maximum load of 4 MW/min/engine.
House Gas Regulating Skid	Y	2	100%	Provided, owned and operated by Pipeline Owner.
Dew Point Heating Fuel Gas Filter/Coalescer Skid	Y	1	100%	Provided, owned and operated by Pipeline Owner Provided by BMcD
	ř	1	100%	Designed for peaking operation, but able to run continuously. Maximum 3 starts and 3
				stops per day, per engine, 7 days a week. Designed to operate at 25% of maximum electric
				rated output capacity while meeting air permit emission requirements. Inlcuded with
RICE Generator Sets	Y	12	8.3%	modular pipe rack, auxiliary platforms, and all miscellaneous equipment
Compact Gas Ramp	Y	12	100.0%	
Fuel Gas Chromatograph System	Y	1	100%	Required for Wärtsilä, optional for MAN supply.
Fuel Gas Analyzer Units	Y	1	100%	
UEL OIL				
Supply Source	-	-	-	Trucked
				Sized for 72 hrs of operation at full load (assuming no fuel gas available). Located within
Fuel Oil Storage Tank	Y	2	50%	secondary containment structure. Provided with leak detection.
Fuel Oil Unloading Pumps	Y	3	50%	
Fuel Oil Forwarding Pumps	Y	3	50%	Fuel oil will be utilized primarily when temperatures drop below 10 degF. Confirm heater
Fuel Oil Heater	Y	2	50%	sizing and fuel oil consumption.

	Y/N	Number	% Capacity (per Unit)	Notes
Building electric heaters, exhaust fans and intake louvers, air-conditioning	Y	TBD	100%	As required for occupied buildings and electrical rooms
ITAKE AIR		1		
Charge Air Filters	Y	24	50%	2 x 50% per generator
JBE OIL SYSTEM				
New Oil Tank	Y	1	100%	Includes immersion heater
Lube Oil Filter	Y	1	100%	
Service/Used Oil Tank	Y	1	100%	
Waste Oil Tank Lube Unloading Pumps	Y N	1 0	100% 100%	Luka Oil Tarlian kaus internel luka silualan dina numan
Lube Onloading Pumps	Y	2	100%	Lube Oil Tankers have integral lube oil unloading pumps. Provided by OEM
Lube Oil Cooler	Y	12	100%	1 x 100% per generator
Engine Auxiliary Module (EAM)	Y	12	100%	1 x 100% per generator
Oil Mist Separator	Y	12	100%	1 x 100% per generator
Mobile Lube Oil Pump	Ŷ	1	100%	
IAKE-UP WATER		-	100/0	
Supply Source	-	-	-	City potable water
Service/Potable Water Booster Pump	Y	1	100%	· · / F · · · · · · · · · · · · · · · ·
Fire Water Storage	Y	1	100%	Firewater tank dedicated fire water capacity
Service Water Transfer Pumps	N	0	100%	
OTABLE WATER SYSTEM				
Supply Source	Y	-	-	City tap, assumes sufficient flow capacity
Potable Water Bladder Tank	Y	1	100%	
Potable Water Heater	Y	1	100%	Instantaneous Heater for SSEWs
Emergency Eye Wash/Safety Showers	Y	5	100%	Battery Room, Unloading, Urea, Maintenance Water Tanks
ANITARY SEWER SYSTEM				
Sanitary Lift Station	Y	1	100%	Supplied with 2 x 100% pumps
Sanitary Treament Facility	Y	1	100%	Waste Holding Tank
REA SYSTEM				
Urea Flow Control Skid	Y	1	100%	
Urea Forwarding Pump Skid	Y	2	100%	
				Sized for the greater of 7 days of station operation at full load on natural gas, or 3 days of
Urea Storage Tank	Y	2	50%	operation on ULSD
SCR Ammonia Distribution Grid	N	0	100%	
SCR Catalyst	Y	12	100%	1 x 100% per generator
Leak Detection	Y	2	-	Each Tank
Contaminated Wastewater	Y	-	_	Drains for areas around equipment that could be contaminated with oil will be directed through an oil/water separator (OWS). Discharge OWS effluent to Holding Tank.
Wastewater Tank	N			
Waste Water Sump Pump	N			
Oil Water Separator (OWS)	Y	1	100%	Included 2 x 50% sump pumps
Water Treatment Reject	N	-	-	
ATHODIC PROTECTION				entralis contralis a contral different activation of the first free to the
Underground Steel Piping Underground Steel Tanks	Y Y	-	-	Cathodic protection system will be galvanic anode type, if required.
ONTROLS	1	-	-	
uipment Control				
RICE	Y	-	-	Control system provided by equipment OEM with local HMI
Medium Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Motor Control Centers	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Low Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
				Provided system will link all RICE controllers and HMI application servers. Provided with
Plant Control System	Y	-	-	redundant ethernet to application servers. Will utilize OEM PCS.
Plant Historian	Y	-	-	Provided by OEM. Include Pi historian as well.
Offsite Interfaces	Ŷ	-	-	Dispatching, OEM Monitoring, EKPC Monitoring
utomatic Generation Control		1		
Distributed Control System (DCS)	Ν			OEM will provide PCS with balance of plant equipment integration.
ibration monitoring				· · · · · · · · · · · · · · · · · · ·
-				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
RICE	Y	-	-	Controllers
NICE		1		Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
				Controllers, if required.
BOP Critical and High Speed Motors	Y	-	-	
BOP Critical and High Speed Motors	Y Y	-	-	EKPC to follow up with what is included with other simulator designs within fleet.
BOP Critical and High Speed Motors ant Simulator igital Bus		-	-	
BOP Critical and High Speed Motors ant Simulator igital Bus Foundation Fieldbus	Y N	- - -		
BOP Critical and High Speed Motors ant Simulator igital Bus Foundation Fieldbus Remote I/O	Y			
BOP Critical and High Speed Motors ant Simulator igital Bus Foundation Fieldbus Remote I/O strumentation	Y N Y	-	-	EKPC to follow up with what is included with other simulator designs within fleet.
BOP Critical and High Speed Motors ant Simulator igital Bus Foundation Fieldbus Remote I/O strumentation Transmitters	Y N Y Y	-	-	EKPC to follow up with what is included with other simulator designs within fleet.
BOP Critical and High Speed Motors ant Simulator gital Bus Foundation Fieldbus Remote I/O strumentation Transmitters HART	Y N Y Y Y	- - -	- - - -	EKPC to follow up with what is included with other simulator designs within fleet.
BOP Critical and High Speed Motors ant Simulator igital Bus Foundation Fieldbus Remote I/O strumentation Transmitters HART Performance Testing	Y N Y Y Y Y	- - - - -	- - - - -	EKPC to follow up with what is included with other simulator designs within fleet. 4-20 mA as available. Install tri-loops on valves for feedback.
BOP Critical and High Speed Motors ant Simulator igital Bus Foundation Fieldbus Remote I/O strumentation Transmitters HART Performance Testing Meteorological Station	Y N Y Y Y Y Y		- - - - - -	EKPC to follow up with what is included with other simulator designs within fleet. 4-20 mA as available. Install tri-loops on valves for feedback. Provided by OEM.
BOP Critical and High Speed Motors lant Simulator igital Bus Foundation Fieldbus Remote I/O istrumentation Transmitters HART Performance Testing Meteorological Station	Y N Y Y Y Y	- - - - -	- - - - -	EKPC to follow up with what is included with other simulator designs within fleet. 4-20 mA as available. Install tri-loops on valves for feedback. Provided by OEM. 1x100% per stack. Datalink to DCS. Cabinet style CEMS (1 per stack)
BOP Critical and High Speed Motors ant Simulator igital Bus Foundation Fieldbus Remote I/O strumentation Transmitters HART Performance Testing Meteorological Station ontinuous Emissions Monitoring System	Y Y Y Y Y Y Y	- - - - - - - - - - - - - - 12	- - - - - - - 100%	EKPC to follow up with what is included with other simulator designs within fleet. 4-20 mA as available. Install tri-loops on valves for feedback. Provided by OEM. 1x100% per stack. Datalink to DCS. Cabinet style CEMS (1 per stack) Redundant relay communications network for protection and control. See Equipment
BOP Critical and High Speed Motors lant Simulator igital Bus Foundation Fieldbus Remote I/O strumentation Transmitters HART Performance Testing	Y N Y Y Y Y Y		- - - - - -	EKPC to follow up with what is included with other simulator designs within fleet. 4-20 mA as available. Install tri-loops on valves for feedback. Provided by OEM. Ix100% per stack. Datalink to DCS. Cabinet style CEMS (1 per stack) Redundant relay communications network for protection and control. See Equipment Control section for equipment / relay interfaces to the control system.
BOP Critical and High Speed Motors lant Simulator igital Bus Foundation Fieldbus Remote I/O strumentation Transmitters HART Performance Testing Meteorological Station ontinuous Emissions Monitoring System elaying Data Link ommunication	Y Y Y Y Y Y Y Y	- - - - - - - - - - - - - - 12	- - - - - - - 100%	EKPC to follow up with what is included with other simulator designs within fleet. 4-20 mA as available. Install tri-loops on valves for feedback. Provided by OEM. 1x100% per stack. Datalink to DCS. Cabinet style CEMS (1 per stack) Redundant relay communications network for protection and control. See Equipment Control section for equipment / relay interfaces to the control system. Automatic Generation Control through RTU communication. BMcD to include RTU in
BOP Critical and High Speed Motors lant Simulator igital Bus Foundation Fieldbus Remote I/O strumentation Transmitters HART Performance Testing Meteorological Station ontinuous Emissions Monitoring System elaying Data Link	Y Y Y Y Y Y Y	- - - - - - - - - - - - - - 12	- - - - - - - 100%	EKPC to follow up with what is included with other simulator designs within fleet. 4-20 mA as available. Install tri-loops on valves for feedback. Provided by OEM. Ix100% per stack. Datalink to DCS. Cabinet style CEMS (1 per stack) Redundant relay communications network for protection and control. See Equipment Control section for equipment / relay interfaces to the control system.

	Y/N	Number	% Capacity (per Unit)	Notes
Internal plant	Y	-	-	Need further discussions with EKPC IT to determine how this is handled.
External IERC CIP Requirements	Y	-	-	Need further discussions with EKPC IT to determine how this is handled. Low impact.
iere eir requirements		-	-	Stand Alone Controllers with local HMI's. Plant Control HMI located in New Control Room
IMI	Y	-	-	and Switchgear building.
LECTRICAL				
enerator Step-Up Transformers:			-	
				Two (2) three-winding GSU transformers. Each transformer services 6 RICE engines with 3
RICE	Y	2	100%	generators per secondary / tertiary winding.
uxiliary/Reserve Transformers:				
Auxiliary Transformer	Y	4	100%	2x100% for every 6 engines.
enerator Buses:	1	1		
				One switchgear bus per 3 generators. Switchgear connected to the associated GSU
				transformer via cable bus. Feeder breakers to auxiliary transformers will be provided to
13800V Switchgear	Y	4	100%	serve station power.
enerator Circuit Breakers:				
				Switchgear circuit breakers will serve as generator circuit breaker and provide
RICE	Y	12	100%	synchronization.
lackstart Generator(s) and Capability	N	-	-	Standby auxiliary generator only.
				Most electrical equipment will be located inside electrical room in Engine Hall. Medium
lectrical Equipment Enclosures:	Y	1	100%	voltage bus housed in standalone electrical building.
witchgear:				
				Two (2) lineups configured in a Main-Tie-Main with source transformers and buses rated to
480V Switchgear	Y	4	100%	power the entire lineup during the loss of a single source
Notor Control Centers:				
480 V MCCs	Y	-	-	Rated for operating load
mergency Power:				
Uninterruptible Power (UPS)	Y	-	-	A single Balance of Plant UPS system will be provided.
				Primary and secondary power source from 24 VDC panel which feeds into active
				redundancy module. The 24 VDC feed from the active redundancy module provides two
				power supplies to the PLC system.
DC System	Y	1	100%	Included with 2x100% DC battery chargers
Standby Auxiliary Generator	Y	1	100%	Sized to support loss of power to facility
tand Alone Control Systems				
Fire Protection/Detection	Y	-	-	See fire protection section in Mechanical for details
Plant HVAC	Y	-	-	See HVAC section in Mechanical for details
Building/Site Security	Y	-	-	
Plant Communications	Y	-	-	
In-Line Battery Monitoring:	Y			
ghting	T	1		
Normal	Y	-	-	LED-lighting; lighting required for new road and plant buildings.
Emergency Egress	Y	-	-	Local battery pack fixtures will be provided for emergency egress.
irounding	Y	-	-	New grounding grid
ightning Protection	Y	-	-	A UL Master Label will be provided for the new facility.
				Heat tracing designed to maintain 40F for fluids subject to freezing based on size and
reeze Protection	Y	-	-	service
lectrical Studies:		1		
				Identify equipment and bus loading, motor terminal voltages and available fault currents a
Load Flow, voltage drop, short circuit	Y	-	-	each voltage level
Protective coordination/relay settings	Y	-	-	
Arc Flash	Y	-	-	
abling	Y	-	-	Cable tray and field routed conduit above grade, duct bank below grade
ransmission / Interconnection:	Y	-	-	Discuss in separate scope review.
IVIL/STRUCTURAL	1	1	T	
xisting Facilities	N	-	-	Greenfield site. Topographic and property survey required.
				Sufficient room for future expansion considered. Tie-ins to new gas pipeline and
ayout Considerations	Y	-	-	transmission.
				Excess spoils will be disposed of on-site, used for fill if possible. No hazardous materials
isposal of Spoils	-	-	-	accounted for in project estimate.
oils Conditions / Stability	Y	-	-	
oil Improvement	Y	-	-	
ubsurface Rock	Y	-	-	
ubsurface water	Y	-	-	Possible dewatering may be needed - geotechnical report utilize to determine.
ut/Fill	Y	-	-	Use existing site materials to grade the site and avoid off-site borrow.
isposal of debris	-	-	-	Disposed of on-site.
ermanent Stormwater				New stormwater to be collected in ditches and control surfaces, and routed to new
	-	-	-	permitted outfall
				Erosion control will be in accordance with state and local guidelines and regulations and w
				include best management practices such as silt fence, rock check dams, slope protection,
				construction exits, and stormwater pond(s) for construction and permanent. A SWPPP will
Construction Stormwater	Y	-	-	be prepared.
oads	Y	-	-	All new roads for site
				Main access roads shall be paved with asphaltic concrete. Maintenance roads and areas w
	-	-	-	be covered with crushed rock. Other areas top soil and seeded.
urfacing				
urfacing oil Bearing Capacity	-	-	-	Determined by Geotech report.
oil Bearing Capacity oundation type	-			Determined by Geotech report.
oil Bearing Capacity				

BURNS

	Y/N	Number	% Capacity (per Unit)	Notes
Engine Hall	Y	1	-	Building housing engines with separate rooms for electrical, administrative, mechanical, battery storage. Includes ridge vent and bridge crane.
Warehouse	Y	1	-	PEMB adjacent to Engine Hall, approx. 50' x 100'
Fire Pump	Y	1		
Medium Voltage Buildings	Y	2		qty = 2
CEMS Enclosure	N			
Guard Shack	Y	2		Main security guard shack incorporate utilities for restrooms. Construction entrance guard shack will not.
laintenance cranes	Y	-	-	Engine hall bridge crane
te Security	Y	-	-	Cameras, badge access for all doors. Include costs for 24/7 security during construction
andscaping	Y	-	-	Berm and Landscaping between plant and neighbors.
				New fence around perimeter of new plant facilities. Automated slide gate at facility
ence	Y	-	-	entrance.
CONSTRUCTION				
Itilities		Т		
Power	Y	-	-	Construction power from aux. generators
Communication	Y	-	-	Cellular
Construction Water	Y	-	-	Trucked until City potable tie-in connection is commissioned
Potable Water	Y	-	-	Trucked until City potable tie-in connection is commissioned
Sanitary	Y	-	-	Portable facilities provided by construction contractors
				New permanent parking adjacent to engine hall. Temporary construction parking to be
Parking	Y	-	-	identified.
Gate Entry		1	1	
Main	Y	-	-	New guard shack
Personnel/Craft	Y	-	-	New main gate/construction entrance
Delivery	Y	-	-	New slide gate for construction and operation entrances
Construction Field Office / Trailers				
Owner	Y	-	-	Will include Trailers in Owners Costs sheet.
Engineer	Y	-	-	Will include Trailers in Owners Costs sheet.
Vendors	Y	-	-	Will include Trailers in Owners Costs sheet.
Contractors	N	-	-	Will include Trailers in Owners Costs sheet. Contractors provide their own Trailers.
Site Services	Y	-		Cleaning, snow removal, dumpsters, etc.
Laydown area	Y	-	-	On site areas to be identified with easements located
Warehouses	Y	-	-	Contractor will provide necessary storage space during construction.
OWNER COSTS / MISC.				contractor win provide necessary storage space during construction.
Permits				
	Y	-	-	BMcD to include
See Permit Matrix	Ť	-	-	BMCD to include
Dwner's Costs	N N			All second by the first state
Project Development	Y Y	-	-	Allowance to be included
		-	-	Allowance to be included
Owner's Operations Personnel				
Owner's Project Management	Y	-	-	Allowance to be included
Owner's Project Management Owner's Engineer	Y N			
Owner's Project Management Owner's Engineer Owner's Legal Counsel	Y N Y	-	-	Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees	Y N Y Y		-	Allowance to be included Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees	Y N Y Y Y		- - -	Allowance to be included Allowance to be included Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land	Y N Y Y Y Y	- - - -	- - -	Allowance to be included Allowance to be included Allowance to be included Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs	Y N Y Y Y Y	- - - -	- - - -	Allowance to be included Allowance to be included Allowance to be included Allowance to be included Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site	Y N Y Y Y Y Y	- - - - -	- - - - -	Allowance to be included Allowance to be included Allowance to be included Allowance to be included Allowance to be included New City potable water for supply
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site	Y N Y Y Y Y Y N	- - - -	- - - -	Allowance to be included Allowance to be included Allowance to be included Allowance to be included Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp	Y N Y Y Y Y N N	- - - - - - - - - - - -		Allowance to be included Allowance to be included Allowance to be included Allowance to be included Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs.
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts	Y N Y Y Y Y N N Y	- - - - - - - - -	- - - - - - - -	Allowance to be included Allowance to be included Allowance to be included Allowance to be included Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment	Y N Y Y Y Y N N Y Y	- - - - - - - - -		Allowance to be included Allowance to be included Allowance to be included Allowance to be included Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts	Y N Y Y Y Y N N Y	- - - - - - - - -	- - - - - - - -	Allowance to be included Allowance to be included Allowance to be included Allowance to be included Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax	Y N Y Y Y Y N N N Y Y Y Y	- - - - - - - - -		Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included Sales tax is excluded, other than for non-permanent consumables and supplies
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation	Y N Y Y Y Y N N Y Y Y Y Y	- - - - - - - - -		Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included Allowance to be included Allowance to be included Sales tax is excluded, other than for non-permanent consumables and supplies Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax	Y N Y Y Y Y N N N Y Y Y Y	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - -	Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation	Y N Y Y Y Y N N Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - -	Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included Allowance to be included Allowance to be included Sales tax is excluded, other than for non-permanent consumables and supplies Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation Owner's Contingency	Y N Y Y Y Y N N N Y Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - -	Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation Owner's Contingency Interest During Construction	Y N Y Y Y Y Y N N Y Y Y Y Y Y N	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - -	Allowance to be included New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation Owner's Construction Temporary Utilities	Y N Y Y Y Y N N N Y Y Y Y Y N Y Y Y Y Y Y Y Y Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	Allowance to be included New City potable water for supply New City potable water for supply New pipeline, captured in separate project scope costs. Allowance to be included Allowance to be included Allowance to be included Sales tax is excluded, other than for non-permanent consumables and supplies Allowance to be included Included in EPC costs
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation Owner's Contingency Interest During Construction Temporary Utilities Startup Testing Fuels and Consumables	Y N Y Y Y Y N N Y Y Y Y Y Y Y Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	Allowance to be included New City potable water for supply New Dipeline, captured in separate project scope costs. Allowance to be included Allowance to be included Allowance to be included Sales tax is excluded, other than for non-permanent consumables and supplies Allowance to be included Excluded Included in EPC costs Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation Owner's Contingency Interest During Construction Temporary Utilities Startup Testing Fuels and Consumables Operator training Site Security	Y N Y Y Y Y N N Y Y Y Y Y Y Y Y Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -		Allowance to be included New City potable water for supply New Dipeline, captured in separate project scope costs. Allowance to be included Allowance to be included Sales tax is excluded, other than for non-permanent consumables and supplies Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation Owner's Contingency Interest During Construction Temporary Utilities Startup Testing Fuels and Consumables Operator training Site Security	Y N Y Y Y Y N N Y Y Y Y Y Y Y Y Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -		Allowance to be included New City potable water for supply New Dipeline, captured in separate project scope costs. Allowance to be included
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Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Rights Costs Water Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation Owner's Contingency Interest During Construction Temporary Utilities Startup Testing Fuels and Consumables Operator training Site Security EXCLUSIONS Taxes Insurance	Y N Y Y Y Y N N N Y Y Y Y Y Y Y Y Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -		Allowance to be included New City potable water for supply New Dipeline, captured in separate project scope costs. Allowance to be included Sales tax is excluded, other than for non-permanent consumables and supplies Allowance to be included Allowance to be included
Owner's Project Management Owner's Engineer Owner's Legal Counsel Political Concessions / Area Development Fees Permitting & License Fees Land Water Rights Costs Water Infrastructure and Supply to Site Natural Gas Infrastructure and Supply to Site Labor Camp Permanent Plant Operating Spare Parts Maintenance Tools & Equipment Permanent Plant Equipment & Furnishings Sales Tax Escalation Owner's Contingency Interest During Construction Temporary Utilities Startup Testing Fuels and Consumables Operator training Site Security EXCUSIONS Taxes Insurance Sound abatement above normal supply	Y N Y Y Y Y N N Y Y Y Y Y Y Y Y Y Y - -			Allowance to be included New City potable water for supply New Dipeline, captured in separate project scope costs. Allowance to be included Allowance to be included Allowance to be included Sales tax is excluded, other than for non-permanent consumables and supplies Allowance to be included Allowance to be included <
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Here A Product NORMATION		Y/N	Number	% Capacity (per Unit)	Notes
Set Description -	ENERAL PROJECT INFORMATION			(,,	
Project Bootspin -					New 2x1 dual fuel combined cycle combustion turbine power plant consisting of two (2)
House plan -					
Project Isolation - - - Chin Courty, FC. Bit Beconfight - - Lossing trended size a faith Statum. Bit Beconfight - - - Description Bit Beconfight - - Bit Beconfight - Description Capacity Frater - - - Description Descc					(ACC). The new CTGs, STG, HRSGs, and associated auxiliary equipment will be located
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Gived type Y - Propriem CTG Cooler Y 4 25% CTG Lube OII Cooler Y 2 50% Grow Lube OII Cooler Y 2 100% PR Heat Exchanger Y 2 100% MRCSSED ALM Y 3 50% Air Coordination Stream Control C		Y	2	100%	
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bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionaliz and drains, fin tube bundles and tube cleaning system, 2·100% liquid ring vacuur condensate collection headers, steal support structure, two-speed fans, fan deck and drains, fin tube bundles and tube cleaning system, 2·100% liquid ring vacuur condensate collection headers, steal support structure, two-speed fans, fan deck and stairs ACC Condensate Storage Tank Y 1 100% Condensate Pumps Y 3 50% Gland Steam Condenser Y 1 100% Steam Turbine Flash Tank Y 1 100% Ct CHEMICAL FEED					
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Air-Cooled Condenser (ACC) Y 1 100% and stairs ACC Condensate Storage Tank Y 1 100% Condensate Pumps Y 3 50% Vertical can-type Gland Steam Condenser Y 1 100% Include Can-type Gland Steam Condenser Y 1 100% Include Can-type Cet CHENCLAFEED Y 1 100% Includes Zx100% feed pumps Cancenset System Y 2 100% Includes Zx100% feed pumps CMINEALIZED WATER SYSTEM Y 2 100% Includes Zx100% feed pumps EMINEALIZED WATER SYSTEM Y 2 100% Includes Zx100% feed pumps Demineralized Water Transfer Pumps Y 2 100% Includes Zx100% feed pumps Mixed Bed Deminerization System Y 2 100% Includes Zx100% feed pumps Mixed Bed Deminerization System Y 2 100% NOx water injection (while firing on fuel oil) Reverse Osmosis (RO) Prefilters Y 2 100% Skids include booster pumps Mixed Bed Deminerization System Y 2 100% Skids include stark, heater, cartridge filter and forwarding pump Chemical Dosing Skids Y 9 100%					and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump
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Condensate Pumps Y 3 50% Vertical can-type Gland Steam Condenser Y 1 100% Steam Turbine Flash Tank Y 1 100% Ammonia/Amine System Y 2 100% Phosphate System Y 2 100% Oxygen Scavenger System Y 2 100% Demineralized Water Storage Tank Y 2 100% Demineralized Water Storage Tank Y 2 100% Reverse Oxnosis (RO) Prefilters Y 2 100% Two-Pass RO Skids Y 2 100% Miked Bed Deminerization System Y 2 100% Chemical Dosing Skids Y 2 100% Chemical Dosing Skids Y 9 100% Each skid will have 2x100% or 3x50% redundancy. Chemical Dosing Skids Y 9 100% Each skid will have 2x100% or 3x50% redundancy. Chemical Dosing Skids Y 9		Y			
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Ammonia/Amine System Y 2 100% Phosphate System Y 6 50% 3x50% per HRSG Oxygen Scavenger System Y 2 100% Includes 2x100% feed pumps EMINERALIZED WATER SYSTEM Demineralized Water Transfer Pumps Y 2 100% Demineralized Water Storage Tank Y 1 100% Nox water injection (while firing on fuel oil) Reverse Osmosis (RO) Prefilters Y 2 100% Two-Pass RO Skids Y 2 100% Clean in Place (CIP) System Y 1 100% Includes tank, heater, cartridge filter and forwarding pump Chemical Dosing Skids Y 9 100% Chemicals as required based on source water quality. Chemical Totes Y 9 100% Miket theres. Designed for max flow during full load with both combustion turbines and full steam turbine bypass. Feedwater pumps Y 4 100% Includes for each HRSG (100% capacity defined by max unfired demand with STG RE PROTECTION Re PROTECTION Design	Gland Steam Condenser	Y	1	100%	
Ammonia/Amine System Y 2 100% Phosphate System Y 6 50% 3x50% per HRSG Oxygen Scavenger System Y 2 100% Includes 2x100% feed pumps IMINERALIZED WATER SYSTEM Y 2 100% Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup Demineralized Water Transfer Pumps Y 2 100% Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup Demineralized Water Storage Tank Y 1 100% NOx water injection (while firing on fuel oil) Reverse Osmosis (RO) Prefilters Y 2 100% Two-Pass RO Skids Two-Pass RO Skids Y 2 100% Skids include booster pumps Mixed Bed Deminerization System Y 1 100% Includes tank, heater, cartridge filter and forwarding pump Clean in Place (CIP) System Y 1 100% Includes tank, heater, cartridge filter and forwarding pump Chemical Dosing Skids Y 9 100% Chemicals as required based on source water quality. Chemical Totes Y 9 100% Chemicals as required based on source water quality. Eperature System V 9 100% Chemicals as required based on source water quality. <		Y	1	100%	
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Oxygen Scavenger System Y 2 100% Includes 2x100% feed pumps MINERAUZED WATER SYSTEM V 2 100% Demineralized Water Transfer Pumps Y 2 100% Demineralized Water Storage Tank Y 1 100% Demineralized Water Storage Tank Y 1 100% Reverse Osmosis (RO) Prefilters Y 2 100% Two-Pass RO Skids Y 2 100% Glean in Place (CIP) System Y 1 100% Chemical Dosing Skids Y 9 100% Chemical Totes Y 9 100% EDWATER SYSTEM Y 4 100% 2x100% for each HRSG (100% capacity defined by max unfired demand with STG tap the pumps and full steam turbine bypass. Feedwater pumps Y 4 100% 2x100% for each HRSG (100% capacity defined by max unfired demand with STG tap the pumps to the pumps to the pumps to the pumps to the pump to the pump to the pump to the pump tothe pump to the pump to the pump tothe pump to the pump t					3x50% per HRSG
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Chemical Dosing Skids Y 9 100% Each skid will have 2x100% or 3x50% redundancy. Chemical Totes Y 9 100% Chemicals as required based on source water quality. Chemical Totes Y 9 100% EDWATER SYSTEM With interstage bleed and control valves. Designed for max flow during full load with both combustion turbines and full steam turbine bypass. Feedwater pumps Y 4 100% EPROTECTION Design Basis Y -					
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Chemical Totes Y 9 100% EDWATER SYSTEM With interstage bleed and control valves. Designed for max flow during full load with both combustion turbines and full steam turbine bypass. Feedwater pumps Y 4 100% 2x100% for each HRSG (100% capacity defined by max unfired demand with STG term of the state of the sta	Chemical Dosing Skids	v	٩	100%	
EDWATER SYSTEM With interstage bleed and control valves. Designed for max flow during full load with both combustion turbines and full steam turbine bypass. Feedwater pumps Y 4 100% 2x100% for each HRSG (100% capacity defined by max unfired demand with STG 2x100% for each HRSG (100% capacity defined by max unfired demand with STG 2esign Basis Design Basis Y - NFPA 850 recommended practice.					enemicals as required based on source water quality.
Feedwater pumps Y 4 100% 2x100% for each HRSG (100% capacity defined by max unfired demand with STG Re PROTECTION E Design Basis Y - NFPA 850 recommended practice.			+		
Feedwater pumps Y 4 100% 2x100% for each HRSG (100% capacity defined by max unfired demand with STG Re PROTECTION E Design Basis Y - NFPA 850 recommended practice.					
Feedwater pumps Y 4 100% 2x100% for each HRSG (100% capacity defined by max unfired demand with STG RE PROTECTION Design Basis Y - NFPA 850 recommended practice.					With interstage bleed and control valves. Designed for max flow during full load operation with hoth some budding to the load operation.
Design Basis Y - NFPA 850 recommended practice.	Feedwater numps	v	А	100%	
Design Basis Y NFPA 850 recommended practice.		Ŷ	4	100%	2x100 /0 Feach msb (100% capacity defined by max untired demand with STG bypass)
		Y	-	-	NFPA 850 recommended practice.
Insurer/special requirements Y - FM Global	Insurer/special requirements	Y	-	-	FM Global
CTG Fire Protection Y - CO2 and alarm Electrical Equipment Rooms / PCMs Y - - CO2 and alarm	CTG Fire Protection		-		

	Y/N	Number	% Capacity (per Unit)	Notes
				Electric motor and Diesel driven fire pump taking suction from the Service/Fire Water
Pump supply source(s)	Y	2	100%	Storage Tank. Jockey pump to maintain header pressure and for small leaks.
Storage	Y	1	100%	Combined Service/Fire Water Storage Tank fed from makeup water source
Fire loop	Y	-	-	Standalone fire loop
				Provided for occupied buildings per NFPA 13 including admin/office areas, laboratories,
				restrooms and warehouse space. A Pre-action sprinkler system will be provided for STG
				bearing protection. A deluge spray system will be provided for STG lube oil storage tank
Sprinklers	Y	-	-	and piping.
Foam System	N	-	-	
Smoke/heat detectors	Y	-	-	Where necessary or recommended by NFPA
Fire walls	Y	-	-	2-hr fire walls where required by NFPA
		1		
				Field Erected tank sized for 72 hours of GT operation at full load. Additional tank capacit
			500/	8 hours of continuous operator of backup diesel generator.
Storage Tank	Y	2	50%	Located within seconary containment structure
Transfer Damas	v	2	40000	1 x 100% for each combustion turbine unit with 1 x 100% common spare located near for
Transfer Pumps	Y	3	100%	oil tank. Two (2) truck unloading stations. 1 x 100% unloading pump for each unloading station v
Lielending Dumme	v	2	100%	
Unloading Pumps	Y	3	100%	1 x 100% common spare.
UseRes	v	2	500/	3 x 50% inline electric heaters with recirculation system. Each heater sized for 50% of to
Heating	Y	3	50%	plant fuel oil flow (all three units).
Duplex Filter	Y	2	100%	One skid for each CTG (provided by CTG supplier)
Meter	Y	2	100%	One for each CTG (provided by CTG supplier)
C SYSTEMS				
Building electric heaters, exhaust fans and intake louvers, air-		TOO	1000/	As securized for accurical buildings and algorithm areas
conditioning KE-UP WATER	Y	TBD	100%	As required for occupied buildings and electrical rooms
NE-UF WAIEK				Evicting onsite clarified water for from Kentuclus Diver The activity (0.16 - 16 - 16 - 16 - 16 - 16 - 16 - 16 -
Supply Source				Existing onsite clarified water fed from Kentucky River. Tie point will be downstream of
Supply Source Clarified Water Transfer Pumps	- Y	- 2	- 100%	existing clarifier
	Y	1	100%	
Clarified Water Storage Tank	Y	2		
Clarified Water Ultra Filtration (UF) Filters UF Backwash Tank	Y	1	100% 100%	
UF Backwash Pumps	Y	2	100%	
Chemical Feed Pumps	Y	8	100%	Chemicals as required based on source water quality
Chemical Totes	Y	4	100%	chemicals as required based on source water quality
chemical fotes	1	4	100%	Field erected tank, includes immersion heater(s) and insulation. Standpipe for dedicate
Service/Fire Water Storage	Y	1	100%	fire water volume.
Service Water Transfer Pumps	Y	2	100%	nie water volume.
URAL GAS	ř	2	100%	
Off-site Pipeline	N	-	-	Natural gas available at an interconnection at /near the site boundary
Compression	N	-		Natural gas available at an interconnection at/near the site boundary.
Metering & Regulation	Y	2	100%	
Dew Point Heating	Y	2	100%	1 x 100% per CTG. Natural gas fired dew point heaters
bewronieneading	<u>'</u>	2	10070	1 x 100% per ero. Natarai gas nica dew point neaters
				Dual fuel rated (natural gas and ULSD) F-class gas turbine generators provided with inle
				silencers, air filtration systems, low Nox combustors, lube oil systems, hydraulic oil syst
Combustion Gas Turbine (CTG)	Y	2	50%	starting systems, acoutical enclosures with HVAC, controls, fire protection and fuel syst
Fuel Gas Filter Separator	Y	2	100%	
Fuel Gas Metering Skid	Y	2	100%	
Fuel Gas Pilot Fuel Filter Separator Skid	Y	2	100%	
Fuel Gas Heater Skid	Y	2	100%	
Fuel Gas Knockout Drum	Y	2	100%	
Fuel Gas Filter Separator Skid	Y	1	100%	Supply gas filter separator and drains tank
Fuel Gas Drains Tank	Ŷ	2	100%	1x100% per CTG
ROGEN		•		
Nitrogen Bottles, Distribution Manifold	Y	1	100%	
ABLE WATER				
Supply Source	Y	-	-	City tap, assumes sufficient pressure and flow
Emergency Eye Wash/Safety Showers	Y	14	100%	
Potable Water Water Heater Tanks	Ŷ	7	100%	
IPLE ANALYSIS		1		
			1	Sample cycle make-up, reclaim water supply, condensate pump discharge and after
				chemical feed, HRSG water and steam, BFP suction and discharge, and wastewater
Sample Analysis Panel	Y	1	100%	discharge
Sample Analysis Cooler	Ŷ	1	100%	-
ITARY SEWER	-			
Sanitary Lift Station	Y	1	100%	Lift station includes 2x100% sewage pumps
Sanitary Sewer Pumps	Y	2	100%	
Sanitary Treatment Facility	Y	1	100%	Biotreatment of sanitary waste prior to effluent to existing wastewater outfall
M				
	-			Multi-stage, reheat, straight-condensing steam turbine including HP, reheat, and LP ste
				from HRSG's. Provided with stop and control valves, non-return valves, hydraulic contro
				systems, lube oil systems, exhaust hood spray system, gland steam system including
		1	1	condenser with exhausters, turning gear, water induction prevention, and turbine cont
				system with DCS interface
Steam Turbine Generator (STG)	Y	1	100%	system with DCS interface
Steam Turbine Generator (STG) STG Atmospheric Drains Tank	Y Y	1	100% 100%	system with DCS interface
				system with DCS interface
				Triple pressure level, reheat, natural circulation type with horizontal gas turbine exhaus flow through vertical tube heat transfer sections. Includes SCR and CO/VOC catalysts. S
				Triple pressure level, reheat, natural circulation type with horizontal gas turbine exhaus
				Triple pressure level, reheat, natural circulation type with horizontal gas turbine exhaus flow through vertical tube heat transfer sections. Includes SCR and CO/VOC catalysts. S

BURNS

	Y/N	Number	% Capacity (per Unit)	Notes
				Drains for areas around equipment that could be contaminated with oil will be directed
Contaminated Wastewater	Y	-	-	through an oil/water separator.
Oil/water Separator (OWS)	Y	1	100%	OWS includes 2x100% pumps. Effluent discharged to existing outfall
Plant Drains Sump Pumps	Y	7	100%	Sumps and sump pumps as required
Washwater/False Start Drains Tank Blowdown/Recycle Tank	Y	2	100% 100%	1x100% per CTG Recover steam drum blowdown and recycle into influent water treatment system
Recycle Pumps	Y	2	100%	Recover steam drum blowdown and recycle into initident water treatment system
ATHODIC PROTECTION		1		
Underground Steel Piping	Y	-	-	Cathodic protection system will be galvanic anode type, if required.
Underground Steel Tanks	Y	-	-	Coated with sacrificial anodes, if required.
DEMOLITION	Y	-	-	Existing buried utilities for coal plant will be demolished as required for new design
ONTROLS quipment Control			1	
CTG	Y	-	-	Control system provided by equipment OEM with local HMI for each CTG
STG	Y	-	-	Control system provided by equipment OEM with local HMI
Medium Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Motor Control Centers	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Low Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Plant Control System	Y			Provided system will link all CTG and STG controllers and HMI application servers. Provide
Plant Historian	Y	-	-	with redundant ethernet to application servers.
Offsite Interfaces	Ŷ	-	-	Dispatching, OEM Monitoring, EKPC Monitoring
utomatic Generation Control	Y			
				Balance of Plant controls same as CTG and STG control for Siemens. Separate DCS would
Distributed Control System (DCS)	Y	1	100%	needed for GE turbines.
ibration monitoring				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
СТБ	Y	-	-	Controllers
	·	1		Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
STG	Y	-	-	Controllers
				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
BOP Critical and High Speed Motors	Y	-	-	Controllers
lant Simulator Jigital Bus	Y	-	-	EKPC to confirm.
Foundation Fieldbus	N	-	-	
Remote I/O	Y	-	-	
nstrumentation		1		
Transmitters	Y	-	-	
HART	Y	-	-	Install tri-loops on valves for feedback.
Performance Testing	Y	-	-	
Meteorological Station	N	-	-	
continuous Emissions Monitoring System	Y	2	100%	1x100% per stack. Datalink to DCS Redundant relay communications network for protection and control. See Equipment
Relaying Data Link	Y	-	_	Control section for equipment / relay interfaces to the control system.
				Datalinks for Battery Monitoring, Gas Yard, Gas Compressors/Dewpoint Heaters, Air
Communication	Y	-	-	Compresors, CEMS
Dispatching	Y	-	-	Automatic Generation Control through RTU communication
Off site monitoring/administrations	Y	-	-	OEM for Turbine Controller Remote Connection
Switchyard	Y	-	-	Communication Interface with Switchyard RTU
Internal plant	Y	-	-	Need further discussions with EKPC IT to determine how this is handled.
External IERC CIP Requirements	Y	-	-	Need further discussions with EKPC IT to determine how this is handled. EKPC to confirm. E.g. CIP low, medium, etc.
tere cir requirements	1	-	-	Stand Alone Controllers with local HMI's. Plant Control HMI located in New Control Room
IMI	Y	-	-	Admin DCS Room and Switchgear building.
LECTRICAL				
enerator Step-Up Transformers:				
Gas Turbine	Y	2	100%	1x100% for each CTG
Steam Turbine	Y	1	100%	
Auxiliary/Reserve Transformers:	Y.	2	40000	4:400% for each CTC
Gas Turbine	Y	2	100%	1x100% for each CTG
Gas Turbine	Y	2	100%	Isolated Phase Bus: 1x100% for each CTG
Steam Turbine	Ŷ	1	100%	Isolated Phase Bus: 1x100% for STG
Generator Circuit Breakers:				
Gas Turbine	Y	2	100%	Generator Circuit Breaker in Isolated Phase Bus for Synchronization
Steam Turbine	Y	1	100%	Generator Circuit Breaker in Isolated Phase Bus for Synchronization
lackstart Generator(s) and Capability	N	-	-	
lectrical Equipment Enclosures:	Y		_	Base scope will house electrical equipment inside power building, ACC building, or water
witchgear:	Ŷ	-	-	treament building.
	-	1		Configured in a Main-Tie-Main with source transformers and buses rated to power the
4160V Switchgear	Y	-	-	entire lineup during the loss of a single source
				Configured in a Main-Tie-Main with source transformers and buses rated to power the
480V Switchgear	Y	-	-	entire lineup during the loss of a single source
10tor Control Centers:				Dated for the exercise load
480 V MCCs	Y	-	-	Rated for the operating load
mergency Power:	1			A single Balance of Plant UPS system will be provided for the STG and BOP loads. The CTG
Uninterruptible Power (UPS)	Y	_	_	A single Balance of Plant UPS system will be provided for the STG and BOP loads. The CTG OEM will provide the essential system for their equipment and safe shutdown.
	Ť	-	-	A single Balance of Plant DC system will be provided for the STG and BOP loads. The CTG
DC System	Y	-	-	OEM will provide the essential system for their equipment and safe shutdown.
	<u> </u>			Standby diesel generator rated for OEM and BOP Essential operating loads as well as hear
standby Diesel Generator	Y	-	-	trace to maintaining a safe shutdown condition.
tand Alone Control Systems				
Fire Protection/Detection	Y	-	-	See fire protection section in Mechanical for details
Plant HVAC	Y	-	-	See HVAC section in Mechanical for details

BURNS MEDONNELL

	Y/N	Number	% Capacity	Notes
		Number	(per Unit)	Notes
Building/Site Security	Y	-	-	
Plant Communications	Y	-	-	
n-Line Battery Monitoring: ghting	Ŷ	-	-	
Normal	Y	-	-	LED-lighting; lighting required for new road and plant buildings.
Emergency Egress	Ŷ	-	-	Local battery pack fixtures will be provided for emergency egress.
irounding	Y	-	-	Brownfield site. New grounding grid with ties to the existing plant grid as applicable.
ightning Protection	Y	-	-	A UL Master Label will be provided for the new facility.
				Heat tracing designed to maintain 40F for fluids subject to freezing based on size and
reeze Protection	Y	-	-	service
lectrical Studies:	-	-		
				Identify equipment and bus loading, motor terminal voltages and available fault currents
Load Flow, voltage drop, short circuit Protective coordination/relay settings	Y	-	-	each voltage level
Arc Flash	Y	-	-	
Cabling	Y	-	-	Cable tray and field routed conduit above grade, duct bank below grade
ransmission / Interconnection:	N	-	-	Per EKPC
IVIL/STRUCTURAL				
				Brownfield site. Tie into existing Smith system (roads, storm drainage). Topographic surv
xisting Facilities	Y	-	-	of the plant areas will be required.
ayout Considerations	Y	-	-	Reuse part of existing infrastructure and road from previous coal plant construction
				Excess spoils will be disposed of on-site, used for fill if possible. No hazardous materials
Disposal of Spoils	-	-	-	accounted for in project estimate.
				New combined cycle will be in area of coal-fired unit. No geotechnical information provided for coal-fired unit area. Estimate assumptions generally based on geotechnical
oils Conditions / Stability	-	-	_	information for existing Units -12 combustion turbines.
oils Conditions / Stability oil Improvement	- N	-	-	No soil improvement is assumed
ubsurface Rock	N	-		Assume no rock excavation required.
ubsurface water	N	-	-	No dewatering included.
ut/Fill	-	-	-	Use existing site materials to grade the site and avoid off-site borrow.
		1		Disposed of on-site. However, debris from the existing foundation demolition and existin
				buried piping demolition would have to be transported to a permitted facility or the facil
Disposal of debris	-	-	-	on-site would have to be pemitted for this use.
				Existing.
ermanent Stormwater				New surface water drainage ditches and piping to collect and direct to offsite outfall.
	-	-	-	Regrading as required to follow existing drainage paths. Erosion control will be in accordance with state and local guidelines and regulations and
				include best management practices such as silt fence, rock check dams, slope protection,
				construction exits, and stormwater pond(s) for construction and permanent. A SWPPP w
onstruction Stormwater	-	-	-	be prepared.
toads	N	-	-	Existing plant roads to allow for deliveries via truck.
				Main access roads shall be paved. Maintenance roads and areas will be covered with
urfacing	-	-	-	crushed rock. Other areas top soil and seeded.
				Soil bearing capacity not available. To be determined by geotechnical investigation.
				Foundation types assumed as noted below based on an allowable bearing capacity of
oil Bearing Capacity	-	-	-	approximately 2,500 psf. Assume CTG, STG, HRSG, ACC, and Generation Building will be pile-supported. All other
oundation type				equipment/structures will be supported on shallow foundations (mats or footings). A
	-	-	-	geotechnical investigation will be needed to confirm these assumptions.
ransformer Containment	-	-	-	Containment for oil-filled transformer will be provided with an open pit design.
emolition (Foundation)	Y	-	-	See "Disposal of debris" and "Disposal of Spoils" sections above.
nclosures		<u>.</u>		
				Building housing CTG, HRSG, STG, and Aux Boiler (including control room, warehouse spa
				administrative space with offices, and machine shop)
Generation Building	Y	1	100%	Building cranes included for CTG and STG
Water Treatment Building	Y	1	100%	Building housing water treament equipment and fire water pumps
ACC Building Electrical (see electrical section)	Y	1	100%	Building to house ACC equipment and electrical
	1	-	-	
Warebouse/Admin Eacilities	V	1	100%	
Warehouse/Admin Facilities Maintenance Shops	Y	1	100%	
Maintenance Shops	Y Y Y	1	100%	
Maintenance Shops Aaintenance cranes	Y Y	1		Existing Smith gaurdshack used.
Maintenance Shops Aaintenance cranes iuardshack	Y	1	100%	Existing Smith gaurdshack used. Included in Owner's costs
Maintenance Shops Alaintenance cranes Juardshack ite Security	Y Y	-	-	
Maintenance Shops Alaintenance cranes Juardshack ite Security	Y Y N -	1 - -	-	Included in Owner's costs
Maintenance Shops Jaintenance cranes Juardshack ite Security	Y Y N - -	1 - -	-	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control.
Maintenance Shops Aaintenance cranes iwardshack ite Security andscaping ence	Y Y N -	1 - -	-	Included in Owner's costs
Maintenance Shops Aaintenance cranes iuardshack ite Security andscaping ence ONSTRUCTION	Y Y N - -	1 - -	-	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control.
Maintenance Shops Aaintenance cranes iuardshack ite Security andscaping ence ONSTRUCTION Hillities	Y Y N - - N			Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant
Maintenance Shops Alaintenance cranes Usurdshack ite Security andscaping ence ONSTRUCTION tillites Power Power	Y Y N - - N Y	-		Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility
Maintenance Shops Aaintenance cranes iwardshack ite Security andscaping ence ONSTRUCTION Itilities Power Communication	Y Y N - - - N V Y Y	1 	100% - - - - -	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system
Maintenance Shops Aaintenance cranes iwardshack ite Security andscaping ence ONSTRUCTION ttilities Power Communication Construction Water	Y Y N - - - - N Y Y Y	-		Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system
Maintenance Shops Aaintenance cranes iuardshack ite Security andscaping ence ONSTRUCTION Hillities Power Communication Construction Water Potable Water	Y Y N - - - N Y Y Y Y Y	1	100% 	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility prable water system
Maintenance Shops Aaintenance cranes Suardshack ite Security andscaping ence CONSTRUCTION Itilities Power Communication Construction Water	Y Y N - - - - N Y Y Y	1 		Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors
Maintenance Shops Aaintenance cranes Guardshack ite Security andscaping ence CONSTRUCTION Itilities Power Communication Construction Water Potable Water Sanitary	Y Y N - - - N Y Y Y Y Y	1	100% 	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building.
Maintenance Shops Aaintenance cranes Suardshack ite Security andscaping ence CONSTRUCTION Itilities Power Communication Construction Water Potable Water Sanitary earking	Y Y N - - - N Y Y Y Y Y	1	100% 	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors
Maintenance Shops Aaintenance cranes iuardshack ité Security andscaping ence ONSTRUCTION tilities Power Communication Construction Water Potable Water Sanitary arking	Y Y N - - - N Y Y Y Y Y	1	100% 	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building.
Maintenance Shops Alaintenance cranes Juardshack ite Security andscaping ence ONSTRUCTION tillities Power Communication Construction Water Sanitary arking siate Entry	Y Y N - - - N Y Y Y Y Y Y	1 	100%	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified.
Maintenance Shops Alaintenance cranes Juardshack ite Security andscaping ence ONSTRUCTION titlities Power Communication Construction Water Potable Water Sanitary arking iate Entry Main Personnel/Craft Delivery	Y Y N - - - N Y Y Y Y Y Y Y Y	1	100%	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. Existing Smith guard shack.
Maintenance Shops Alaintenance cranes Jaurdshack Ite Security andscaping ence ONSTRUCTION Itilities Power Communication Construction Water Potable Water Sanitary arking faite Entry Main Personnel/Craft Delivery Construction Field Office / Trailers	Y Y N - - - N Y Y Y Y Y Y Y - -	1	100%	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. Existing Smith guard shack. Existing Smith main gate and guard shack. New slide gate for construction.
Maintenance Shops Aaintenance cranes iwardshack ite Security andscaping ence ONSTRUCTION tilities Power Communication Construction Water Potable Water Sanitary arking iate Entry Main Personnel/Craft Delivery ionstruction Field Office / Trailers Owner	Y Y N - - - N Y Y Y Y Y Y Y Y Y Y Y	1	100%	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K. Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. Existing Smith guard shack. Existing Smith main gate and guard shack. New side gate for construction. Trailers in Owners Costs.
Maintenance Shops Vaintenance cranes Suardshack ite Security andscaping Fence CONSTRUCTION Itilities Power Construction Water Potable Water Sanitary Parking Gate Entry Main Personnel/Craft Delivery Construction Field Office / Trailers Owner Engineer	Y Y N - - - - Y Y Y Y Y Y Y Y Y Y Y Y	1 	100%	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. Existing Smith guard shack. Existing Smith main gate and guard shack. New slide gate for construction. Trailers in Owners Costs. Trailers in Owners Costs.
Maintenance Shops Aaintenance cranes Jaurdshack ite Security andscaping ence ONSTRUCTION Utilities Power Communication Construction Water Potable Water Sanitary Parking Gate Entry Main Personnel/Craft Delivery Construction Field Office / Trailers Owner Engineer Vendors	Y Y N - - - N Y Y Y Y Y Y Y Y Y Y	1 	100%	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. Existing Smith guard shack. Existing Smith main gate and guard shack. New slide gate for construction. Trailers in Owners Costs. Trailers in Owners Costs.
Maintenance Shops Vaintenance cranes Suardshack ite Security andscaping Fence CONSTRUCTION Itilities Power Construction Water Potable Water Sanitary Parking Gate Entry Main Personnel/Craft Delivery Construction Field Office / Trailers Owner Engineer	Y Y N - - - - Y Y Y Y Y Y Y Y Y Y Y Y	1 	100%	Included in Owner's costs Minimal landscaping included. Disturbed areas will be seeded for erosion control. Assume existing perimeter security fence is adequate for new plant Construction power from existing J.K Smith facility Tie-in to existing system Tie-in to existing J.K. Smith facility service water system Tie-in to existing J.K. Smith facility potable water system Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. Existing Smith guard shack. Existing Smith main gate and guard shack. New slide gate for construction. Trailers in Owners Costs. Trailers in Owners Costs.

BURNS

	Y/N	Number	% Capacity (per Unit)	Notes
				Existing warehouse is full; Contractor will provide necessary storage space during
Varehouses	Y	-	-	construction.
DWNER COSTS / MISC.				
Permits				
See Permit Matrix	Y	-	-	EKPC w/ BMcD Support.
Owner's Costs				
Project Development	Y	-	-	Allowance to be included
Owner's Operations Personnel	Y	-	-	Allowance to be included
Owner's Project Management	Y	-	-	Allowance to be included
Owner's Engineer	N	-	-	
Owner's Legal Counsel	Y	-	-	Allowance to be included
Political Concessions / Area Development Fees	Y	-	-	Allowance to be included
Permitting & License Fees	Y	-	-	Allowance to be included
Land	N	-	-	Brownfield, existing
Water Rights Costs	Y	-	-	Allowance to be included
Water Infrastructure and Supply to Site	N	-	-	Existing
Natural Gas Infrastructure and Supply to Site	N	-	-	N/A, reuse existing
Labor Camp	N	-	-	
Permanent Plant Operating Spare Parts	Y	-	-	Allowance to be included
Maintenance Tools & Equipment	Y	-	-	Allowance to be included
Permanent Plant Equipment & Furnishings	Y	-	-	Allowance to be included
Sales Tax	Y	-	-	Sales tax is excluded, other than for non-permanent consumables and supplies
Escalation	Y	-	-	Allowance to be included
Owner's Contingency	Y	-	-	Allowance to be included
Interest During Construction	N	-	-	Excluded
Temporary Utilities	Y	-	-	Included in EPC costs
Startup Testing Fuels and Consumables	Y	-	-	Allowance to be included
Operator training	Y	-	-	Allowance to be included
Site Security	Y	-	-	Allowance to be included
GENERAL ASSUMPTIONS				
				Existing equipment, piping, cables, etc. are in adequate working order and can be reused
Reuse of Existing Equipment and Systems	Y	-	-	without modifications
EXCLUSIONS		•		
Taxes	-	-	-	Sales, use, gross receipts, property, and other types.
Insurance	-	-	-	All insurance other than General Liability being carried as a project cost
Sound abatement above normal supply	-	-	-	
Aesthetic landscaping other than erosion control	-	-	-	
High escalation assocated with extreme market conditions	-	-	-	
Financing fees	-	-	-	
Interest during construction				

	Y/N	Number	% Capacity (per Unit)	Notes
ENERAL PROJECT INFORMATION			(per onit)	
				New 2x1 dual fuel combined cycle combustion turbine power plant consisting of two (2)
		1		advanced F-class combustion turbines (CTGs), two (2) heat recovery steam generators
roject Description	-	_	_	(HRSGs), a single condensing steam turbine generator (STG), and a cooling tower. The ne CTGs, STG, HRSGs, and associated auxiliary equipment will be located indoors.
Project Location	-	-	-	Pulaski County, KY.
Site Description	-	-	-	Existing brownfield site at Cooper Power Station.
Design Fuel	-	-	-	New natural gas pipeline routed to site with fuel oil backup (ultra low sulfur diesel)
Heat Rejection	-	-	-	Wet counterflow, mechanical draft cooling tower
Operation	-	-	-	Baseloaded with outages for maintenance
Capacity Factor Contracting Approach		-	-	90% Multi-prime.
Labor		-	-	Union or Non-Union.
Project Liquidated Damages	-	-	-	Schedule and performance for each contract.
Project Bonding /LOC	-	-	-	100% Bonding.
Project COD Dates	-	-	-	2030
Project Expansion	-	-	-	None considered
IECHANICAL SYSTEMS/EQUIPMENT				
Ammonia Flow Control Skid	Y	2	100%	One per HRSG.
Ammonia Forwarding Pump Skid	Ŷ	3	100%	One per HRSG plus common spare
Ammonia Storage Tank	Y	1	100%	
Ammonia Unloading Skid	Y	1	100%	
SCR Ammonia Distribution Grid	Y	2	100%	One per HRSG.
SCR Catalyst Detection	Y	2	- 100%	
UXILIARY STEAM	IN		-	
Aux Steam Electric Superheater	Y	1	100%	
Aux Boiler	Y	1	100%	Natural gas-fired for plant startup
Aux Boiler Deaerator	Y	1	100%	
Aux Boiler Blowdown Tank	Y	1	100%	
Aux Boiler Forced Draft (FD) Fan Aux Boiler Feedwater Pumps	Y Y	1 2	100% 100%	
Aux Boiler Feedwater Pumps Aux Boiler Sample Analysis Panel	Y	2	100%	
IRCULATING WATER	·			
Cooling Tower	Y	1	100%	Mechanical draft counterflow FRP cooling tower on concrete basin
Circulating Water Pumps	Y	2	50%	
Aux Cooling Water Pump	Y	1	100%	Characteria a second and have all and the second an
Cooling Tower Chem Feed Tanks	Y	2	100%	Chemicals as required based on source water quality Each skid will have 2x100% or 3x50% redundancy.
Cooling Tower Chem Feed Skids	Y	5	100%	Chemicals as required based on source water quality.
LOSED COOLING WATER (CCW)		1 3	100/0	entering as required based on source water quality.
CCW Heat Exchangers	Y	2	100%	
CCW Pumps	Y	2	100%	
CCW Head Tank	Y	1	100%	Describer
Glycol type CTG Cooler	Y Y	- 4	- 50%	Propylene 2x50% per CTG
CTG Lube Oil Cooler	Y	4	50%	2x50% per CTG
BFP Heat Exchanger	Y	2	100%	
HRSG Recirc Pump Heat Exchanger	Y	2	100%	
OMPRESSED AIR				
Air Compressors	Y	3	50%	Air-Cooled, Oil-Free, Rotary Screw
Air Dryer/Filters	Y	2	100% 100%	Twin-Tower, Heatless Desiccant with pre- and after-filters
Wet Air Receiver Dry Air Receiver	Y	1	100%	
ONDENSATE SYSTEM	I '	-	100/0	
				Single shell, single pressure, dual pass, divided waterbox, self-deaerating, downward
		1		exhaust steam surface condenser with tube sheets, expansion joints, steam turbine bypa
Continue			40000	sparger tubes and hotwell sparger, baffles and distribution piping, and drains flash box.
Condenser	Y	1	100% 50%	Supplied with vacuum pumps and recirc pumps.
Condensate Pumps Gland Steam Condenser	Y	3	50% 100%	Vertical can-type
YCLE CHEMICAL FEED	· _ ·	+ *	10070	
Ammonia/Amine System	Y	2	100%	
Phosphate System	Y	6	50%	3x50% per HRSG
Oxygen Scavenger System	Y	2	100%	Includes 2x100% feed pumps
EMINERALIZED WATER SYSTEM		2	40001	
Demineralized Water Transfer Pumps	Y	2	100%	Field erected tank. Sizing based on steam cycle makeup and NOx water injection (while
Demineralized Water Storage Tank	Y	1	100%	firing on fuel oil)
Reverse Osmosis (RO) Prefilters	Y	2	100%	
Two-Pass RO Skids	Y	2	100%	Skids include booster pumps
Mixed Bed Deminerization System	Y	2	100%	
Clean in Place (CIP) System	Y	1	100%	Includes tank, heater, cartridge filter and forwarding pump
Chamical Desire Skide		~	1000/	Each skid will have 2x100% or 3x50% redundancy.
Chemical Dosing Skids Chemical Totes	Y	9	100% 100%	Chemicals as required based on source water quality.
EEDWATER SYSTEM	T	5	100%	
		1		With interstage bleed and control valves. Designed for max flow during full load operation
		1		with both combustion turbines and full steam turbine bypass.
Feedwater pumps	Y	4	100%	2x100% for each HRSG (100% capacity defined by max unfired demand with STG bypass)
IRE PROTECTION		1		
Design Basis Insurer/special requirements	Y Y	-	-	NFPA 850 recommended practice. FM Global

	Y/N	Number	% Capacity (per Unit)	Notes
Electrical Equipment Rooms / PCMs	Y	-	(per Unit)	CO2 and alarm
				Electric motor and Diesel driven fire pump taking suction from the Service/Fire Water
Pump supply source(s)	Y	2	100%	Storage Tank. Jockey pump to maintain header pressure and for small leaks.
Storage	Y	1	100%	Combined Service/Fire Water Storage Tank fed from makeup water source
Fire loop	Y	-	-	Standalone fire loop Provided for occupied buildings per NFPA 13 including admin/office areas, laboratories,
				restrooms and warehouse space. A Pre-action sprinkler system will be provided for STG
				bearing protection. A deluge spray system will be provided for STG lube oil storage tank
Sprinklers	Y	-	-	and piping.
Foam System	Ν	-	-	
Smoke/heat detectors	Y	-	-	Where necessary or recommended by NFPA
Fire walls	Y	-	-	2-hr fire walls where required by NFPA
		1		Field Erected tank sized for 72 hours of GT operation at full load. Additional tank capaci
				8 hours of continuous operator of backup diesel generator.
Storage Tanks	Y	2	50%	Located within secondary containment structure
				1 x 100% for each combustion turbine unit with 1 x 100% common spare located near fu
Transfer Pumps	Y	3	100%	oil tank.
				Two (2) truck unloading stations. 1 x 100% unloading pump for each unloading station v
Unloading Pumps	Y	3	100%	1 x 100% common spare.
Heating	Y	3	50%	3 x 50% inline electric heaters with recirculation system. Each heater sized for 50% of to plant fuel oil flow (all three units).
Heating Duplex Filter	Y	2	100%	One skid for each CTG (provided by CTG supplier)
Meter	Y	2	100%	One for each CTG (provided by CTG supplier)
C SYSTEMS			20070	
Building electric heaters, exhaust fans and intake louvers, air-				
conditioning	Y	TBD	100%	As required for occupied buildings and electrical rooms
E-UP WATER				
				Existing onsite clarified water fed from Cumberland River. Tie point will be downstream
Supply Source	-	-	-	existing clarifier
Clarified Water Transfer Pumps Clarified Water Storage Tank	Y	2	100% 100%	
Clarified Water Ultra Filtration (UF) Filters	Y	2	100%	
UF Backwash Tank	Y	1	100%	
UF Backwash Pumps	Y	2	100%	
Chemical Feed Pumps	Ŷ	8	100%	Chemicals as required based on source water quality
Chemical Totes	Y	4	100%	
				Field erected tank, includes immersion heater(s) and insulation. Standpipe for dedicated
Service/Fire Water Storage	Y	1	100%	fire water volume.
Service Water Transfer Pumps	Y	2	100%	
URAL GAS	M	1		
Off-site Pipeline Compression	Y N	-	-	New natural gas pipeline routed to site
Metering & Regulation	Y	2	- 100%	
Dew Point Heating	Y	2	100%	1 x 100% per CTG. Natural gas fired dew point heaters
				···· [····· [····· [·····
				Dual fuel rated (natural gas and ULSD) F-class gas turbine generators provided with inle
				silencers, air filtration systems, low Nox combustors, lube oil systems, hydraulic oil syste
Combustion Gas Turbine (CTG)	Y	2	50%	starting systems, acoutical enclosures with HVAC, controls, fire protection and fuel syst
Fuel Gas Filter Separator	Y	2	100%	
Fuel Gas Metering Skid	Y	2	100%	
Fuel Gas Pilot Fuel Filter Separator Skid Fuel Gas Heater Skid	Y Y	2	100% 100%	
Fuel Gas Knockout Drum	Y	2	100%	
Fuel Gas Filter Separator Skid	Y	1	100%	Supply gas filter separator and drains tank
Fuel Gas Drains Tank	Y	2	100%	1x100% per CTG
OGEN				
Nitrogen Bottles, Distribution Manifold	Y	1	100%	
ABLE WATER				
Supply Source	Y	-	-	City tap, assumes sufficient pressure and flow
Emergency Eye Wash/Safety Showers	Y	14	100%	
Potable Water Water Heater Tanks	Y	7	100%	
PLE ANALYSIS				Cample cycle make up, reclaim water sweek, newdenests sweek Histories at 1.6
				Sample cycle make-up, reclaim water supply, condensate pump discharge and after chemical feed, HRSG water and steam, BFP suction and discharge, and wastewater
Sample Analysis Panel	Y	1	100%	discharge
Sample Analysis Panel	Y	1	100%	uiscilui ge
TARY SEWER			10070	
Sanitary Lift Station	Y	1	100%	Lift station includes 2x100% sewage pumps
Sanitary Sewer Pumps	Y	2	100%	
Sanitary Treatment Facility	Ν	-	-	Reuse existing facility sanitary treatment
M		1		
				Multi-stage, reheat, straight-condensing steam turbine including HP, reheat, and LP ste
				from HRSG's. Provided with stop and control valves, non-return valves, hydraulic control
				systems, lube oil systems, exhaust hood spray system, gland steam system including
Steam Turbine Generator (STG)	v	1	100%	condenser with exhausters, turning gear, water induction prevention, and turbine contri system with DCS interface.
Steam Turbine Generator (STG)	Y	1	100% 100%	system with DCS interface
STG Atmospheric Drains Tank	T	1	100%	
				Triple pressure level, reheat, natural circulation type with horizontal gas turbine exhaus
				flow through vertical tube heat transfer sections. Includes SCR and CO/VOC catalysts. So
				flow through vertical tube heat transfer sections. Includes SCR and CO/VOC catalysts. So supported stacks with ports for emision monitoring, platforms and ladder access.
Heat Recovery Steam Generator (HRSG)	Y	2	50%	flow through vertical tube heat transfer sections. Includes SCR and CO/VOC catalysts. So supported stacks with ports for emision monitoring, platforms and ladder access. Water chemistry controlled via continuous blowdown and chemical addition as required.

	Y/N	Number	% Capacity (per Unit)	Notes
Contominated Westervister	Y			Drains for areas around equipment that could be contaminated with oil will be directed through an oil/water separator.
Contaminated Wastewater Oil/water Separator (OWS)	Y	1	- 100%	OWS includes 2x100% pumps. Effluent discharged to existing outfall
Plant Drains Sump Pumps	Y	7	100%	Sumps and sump pumps as required
Washwater/False Start Drains Tank	Y	2	100%	1x100% per CTG
Blowdown/Recycle Tank	Y	1	100%	Recover steam drum blowdown and recycle into influent water treatment system
Recycle Pumps	Y	2	100%	
THODIC PROTECTION				
Underground Steel Piping	Y	-	-	Cathodic protection system will be galvanic anode type, if required.
Underground Steel Tanks	Y	-	-	Coated with sacrificial anodes, if required.
				Existing coal yard equipment and foundations will be demolished as required to make ro
MOLITION	Y	-	-	for new CCGT facility
NTROLS			1	
ipment Control		1		
CTG	Y	-	-	Control system provided by equipment OEM with local HMI for each CTG
STG	Y	-	-	Control system provided by equipment OEM with local HMI
Medium Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Motor Control Centers	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O. Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Low Voltage Switchgear	Ť	-	-	
Plant Control System	Y		_	Provided system will link all CTG and STG controllers and HMI application servers. Provided with redundant othernet to application servers
Plant Historian	Y	-	-	with redundant ethernet to application servers.
Plant Historian Offsite Interfaces	Y	-	-	Dispatching, OEM Monitoring, EKPC Monitoring
tomatic Generation Control	Y	+ -	-	Dispatching, Oeivi Wohltoning, ENPC Wohltoning
	Ť	1		Balance of Plant controls same as CTG and STG control for Siemens. Separate DCS woul
Distributed Control System (DCS)	Y	1	100%	needed for GE turbines.
ration monitoring	T	± 1	100%	
				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
стб	Y	-	-	Controllers
		1		Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
STG	Y	-	-	Controllers
510				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
BOP Critical and High Speed Motors	Y	_	-	Controllers
nt Simulator	Y	-	-	EKPC to confirm.
ital Bus				
Foundation Fieldbus	N	-	-	
Remote I/O	Y	-	-	
trumentation		1		
Transmitters	Y	-	-	
HART	Y	-	-	Install tri-loops on valves for feedback.
Performance Testing	Y	-	-	
Meteorological Station	N	-	-	
ntinuous Emissions Monitoring System	Y	2	100%	1x100% per stack. Datalink to DCS
				Redundant relay communications network for protection and control. See Equipment
aying Data Link	Y	-	-	Control section for equipment / relay interfaces to the control system.
				Datalinks for Battery Monitoring, Gas Yard, Gas Compressors/Dewpoint Heaters, Air
mmunication	Y	-	-	Compresors, CEMS
		-	-	Automatic Generation Control through RTU communication
Dispatching	Y			
Off site monitoring/administrations	Y	-	-	OEM for Turbine Controller Remote Connection
Off site monitoring/administrations Switchyard	Y Y	-	-	Communication Interface with Switchyard RTU
Off site monitoring/administrations Switchyard Internal plant	Y Y Y	-	-	Communication Interface with Switchyard RTU Need further discussions with EKPC IT to determine how this is handled.
Off site monitoring/administrations Switchyard Internal plant External	Y Y Y Y	-	-	Communication Interface with Switchyard RTU Need further discussions with EKPC IT to determine how this is handled. Need further discussions with EKPC IT to determine how this is handled.
Off site monitoring/administrations Switchyard Internal plant External	Y Y Y	-	-	Communication Interface with Switchyard RTU Need further discussions with EKPC IT to determine how this is handled. Need further discussions with EKPC IT to determine how this is handled. EKPC to confirm. E.g. CIP Iow, medium, etc.
Off site monitoring/administrations Switchyard Internal plant External CCIP Requirements	Y Y Y Y Y	-	-	Communication Interface with Switchyard RTU Need further discussions with EKPC IT to determine how this is handled. Need further discussions with EKPC IT to determine how this is handled. EKPC to confirm. E.g. CIP low, medium, etc. Stand Alone Controllers with local HMI's. Plant Control HMI located in New Control Roo
Off site monitoring/administrations Switchyard Internal plant External RC CIP Requirements	Y Y Y Y	-	-	Communication Interface with Switchyard RTU Need further discussions with EKPC IT to determine how this is handled. Need further discussions with EKPC IT to determine how this is handled. EKPC to confirm. E.g. CIP Iow, medium, etc.
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BURNS

	Y/N	Number	% Capacity (per Unit)	Notes
Fire Protection/Detection	Y	-	-	See fire protection section in Mechanical for details
Plant HVAC	Y	-	-	See HVAC section in Mechanical for details
Building/Site Security	Y	-	-	
Plant Communications	Y	-	-	
n-Line Battery Monitoring:	Y	-	-	
ighting				
Normal	Y	-	-	LED-lighting; lighting required for new road and plant buildings.
Emergency Egress	Y	-	-	Local battery pack fixtures will be provided for emergency egress.
irounding	Ŷ	-	-	Brownfield site. New grounding grid with ties to the existing plant grid as applicable.
ightning Protection	Y	-	-	A UL Master Label will be provided for the new facility.
				Heat tracing designed to maintain 40F for fluids subject to freezing based on size and
reeze Protection	Y	-	-	service
				Identify equipment and bus loading, motor terminal voltages and available fault currents
Load Flow, voltage drop, short circuit	Y	-	-	each voltage level
Protective coordination/relay settings	Ŷ	-	-	
Arc Flash	Y	-	-	
abling	Y	-	-	Cable tray and field routed conduit above grade, duct bank below grade
ransmission / Interconnection:	N	-	-	Per EKPC
	IN	· ·	-	rei ERre
IVIL/STRUCTURAL	-	1	1	
		1		Brownfield site. Tie into existing Cooper system (roads, storm drainage). Topographic
xisting Facilities	Y	-	-	survey of the plant areas will be required.
ayout Considerations	Y	-	-	Reuse part of existing infrastructure and road from previous coal plant construction
isposal of Spoils	-	-	-	Excess spoils will be disposed of on-site, used for fill if possible. No hazardous materials accounted for in project estimate.
		1		New combined cycle located in coal yard area. No geotechnical information provided for
oils Conditions / Stability	-	-	-	area. A geotechnical investigation will be needed to confirm stability requirements.
oil Improvement	N	-	-	No soil improvement is assumed
Subsurface Rock	N	-	-	Assume no rock excavation required.
ubsurface water	N	-	-	No dewatering included.
Cut/Fill	-	-	-	Use existing site materials to grade the site and avoid off-site borrow.
	-	-	-	Disposed of on-site. However, debris from the existing coal yard foundation demolition a
		1		existing equipment demolition would have to be transported to a permitted facility or the
Disposal of debris	-	-	-	facility on-site would have to be pemitted for this use.
		1		Existing.
Permanent Stormwater				New surface water drainage ditches and piping to collect and direct to offsite outfall.
	-	-	-	Regrading as required to follow existing drainage paths.
				Erosion control will be in accordance with state and local guidelines and regulations and
				include best management practices such as silt fence, rock check dams, slope protection, construction exits, and stormwater pond(s) for construction and permanent. A SWPPP w
Construction Stormwater	-	-	-	be prepared.
Roads	N	-	-	Existing plant roads to allow for deliveries via truck.
				Main access roads shall be paved. Maintenance roads and areas will be covered with
Surfacing	-	-	-	crushed rock. Other areas top soil and seeded.
				Soil bearing capacity not available. To be determined by geotechnical investigation.
				Foundation types assumed as noted below based on an allowable bearing capacity of
Soil Bearing Capacity	-	-	-	approximately 2,500 psf.
				Assume CTG, STG, HRSG, Cooling Tower, and Generation Building will be pile-supported.
Foundation type				other equipment/structures will be supported on shallow foundations (mats or footings).
	-	-	_	geotechnical investigation will be needed to confirm these assumptions.
Fransformer Containment		-	-	Containment for oil-filled transformer will be provided with an open pit design.
	Ŷ	-		
Demolition (Foundation)	Ŷ	-	-	See "Disposal of debris" and "Disposal of Spoils" sections above.
nclosures				
		1		Building housing CTG, HRSG, STG, and Aux Boiler (including control room, warehouse spa
		1		administrative space with offices, and machine shop)
Generation Building	Y	1	100%	Building cranes included for CTG and STG
Water Treatment Building	Y	1	100%	Building housing water treament equipment and fire water pumps
Cooling Tower Chemical Feed Enclosure	Ŷ	1	100%	Building to house Cooling Tower chemical feed equipment
Electrical (see electrical section)	Y	-	-	
Warehouse/Admin Facilities	Y	1	100%	
Maintenance Shops	Y	1	100%	
Maintenance cranes	Y	-	-	
Guardshack	N			Existing Cooper gaurdshack used.
Site Security	-	-	-	Included in Owner's costs
andscaping	-	-	-	Minimal landscaping included. Disturbed areas will be seeded for erosion control.
ence	N			Assume existing perimeter security fence is adequate for new plant
CONSTRUCTION				
Itilities				
Power	Y	-	-	Construction power from existing Cooper facility
Communication	Y	-	-	Tie-in to existing system
Construction Water	Y	-	-	Tie-in to existing System Tie-in to existing Cooper facility service water system
Potable Water	Y	-	-	Tie-in to existing Cooper facility potable water system
Sanitary	Y	-	-	Portable facilities provided by construction contractors
		1		New permanent parking adjacent to Generation building and Water Treament building.
Parking	Y	-	-	Temporary construction parking to be identified.
Gate Entry		1		
Main	-	-	-	Existing Cooper guard shack.
Personnel/Craft	-	-	-	Existing Cooper guard shack.
Delivery	-	-	-	New slide gate for construction.
	-	-	-	New Since gate for construction.
Construction Field Office / Trailers		1		
Owner	Y	-	-	Trailers in Owners Costs.
Engineer	Y	-	-	Trailers in Owners Costs.
Vendors	Y	-	-	Trailers in Owners Costs.
				Trailers in Owners Costs.
Contractors	Y	-	-	Trailers in Owners costs.

	Y/N	Number	% Capacity (per Unit)	Notes
aydown area	Y	-	-	On site areas to be identified
				Existing warehouse is full; Contractor will provide necessary storage space during
Warehouses	Y	-	-	construction.
OWNER COSTS / MISC.		1	1	
Permits				
See Permit Matrix	Y	-	-	EKPC w/ BMcD Support.
Owner's Costs		1		
Project Development	Y	-	-	Allowance to be included
Owner's Operations Personnel	Y	-	-	Allowance to be included
Owner's Project Management	Y	-	-	Allowance to be included
Owner's Engineer	N	-	-	
Owner's Legal Counsel	Y	-	-	Allowance to be included
Political Concessions / Area Development Fees	Y	-	-	Allowance to be included
Permitting & License Fees	Y	-	-	Allowance to be included
Land	N	-	-	Brownfield, existing
Water Rights Costs	Y	-	-	Allowance to be included
Water Infrastructure and Supply to Site	N	-	-	Existing
Natural Gas Infrastructure and Supply to Site	Y	-	-	Allowance to be included
Labor Camp	N	-	-	
Permanent Plant Operating Spare Parts	Y	-	-	Allowance to be included
Maintenance Tools & Equipment	Y	-	-	Allowance to be included
Permanent Plant Equipment & Furnishings	Y	-	-	Allowance to be included
Sales Tax	Y	-	-	Sales tax is excluded, other than for non-permanent consumables and supplies
Escalation	Y	-	-	Allowance to be included
Owner's Contingency	Y	-	-	Allowance to be included
Interest During Construction	N	-	-	Excluded
Temporary Utilities	Y	-	-	Included in EPC costs
Startup Testing Fuels and Consumables	Y	-	-	Allowance to be included
Operator training	Y	-	-	Allowance to be included
Site Security	Y	-	-	Allowance to be included
GENERAL ASSUMPTIONS		-		
	1			Existing equipment, piping, cables, etc. are in adequate working order and can be reused
Reuse of Existing Equipment and Systems	Y	-	-	without modifications
EXCLUSIONS				
Taxes	-	-	-	Sales, use, gross receipts, property, and other types.
Insurance	-	-	-	All insurance other than General Liability being carried as a project cost
Sound abatement above normal supply	-	-	-	
Aesthetic landscaping other than erosion control	-	-	-	
High escalation assocated with extreme market conditions	-	-	-	
Financing fees	-	-	-	
Interest during construction	-	-	-	

	Y/N	Number	% Capacity (per Unit)	Notes
ENERAL PROJECT INFORMATION				New 2rd dual final analysis and analysis to the tradition of the second state of the s
				New 3x1 dual fuel combined cycle combustion turbine power plant consisting of three (3)
				advanced F-class combustion turbines (CTGs), three (3) heat recovery steam generators (HRSGs), a single condensing steam turbine generator (STG), and an air-cooled condense
				(ACC). The new CTGs, STG, HRSGs, and associated auxiliary equipment will be located
roject Description	-	-	-	indoors.
Project Location		-	-	Greenup County, KY.
Site Description		-	-	New greenfield site at Tygart Creek site #2.
Site Description		-	-	New greenneid site at Tygart Creek site #2.
Design Fuel				Now tig to poorby patyon gas pipoling at site with fuel oil backup (ultra low sulfur discal
Design Fuel Heat Rejection		-	-	New tie to nearby natural gas pipeline at site with fuel oil backup (ultra low sulfur diesel New air-cooled condenser
Operation		-	-	
Capacity Factor	-	-	-	Baseloaded with outages for maintenance 90%
		-	-	
Contracting Approach Labor		-	-	Multi-prime. Union or Non-Union.
	-	-	-	Schedule and performance for each contract.
Project Liquidated Damages Project Bonding /LOC		-	-	100% Bonding.
Project COD Dates	-	-	-	2030
Project COD Dates Project Expansion	-	-	-	None
		-	-	None
ECHANICAL SYSTEMS/EQUIPMENT			1	
QUEOUES AMMONIA SYSTEM		-		
Ammonia Flow Control Skid	Y	3	100%	One per HRSG.
Ammonia Forwarding Pump Skid	Y	4	100%	One per HRSG plus common spare
Ammonia Storage Tank	Y	1	100%	
Ammonia Unloading Skid	Y	1	100%	-
SCR Ammonia Distribution Grid	Y	3	100%	One per HRSG.
SCR Catalyst	Y	3	100%	
Detection	N	-	-	
UXILIARY STEAM				
Aux Steam Electric Superheater	Y	1	100%	
Aux Boiler	Y	1	100%	Natural gas-fired for plant startup
Aux Boiler Deaerator	Y	1	100%	
Aux Boiler Blowdown Tank	Y	1	100%	
Aux Boiler Forced Draft (FD) Fan	Y	1	100%	
Aux Boiler Feedwater Pumps	Y	2	100%	
Aux Boiler Sample Analysis Panel	Y	2	100%	
LOSED COOLING WATER (CCW)	·	2	10070	
Air-Cooled Heat Exchanger (ACHE)	Y	1	100%	
	Y	4	33%	
CCW Pumps				
CCW Head Tank	Y	1	100%	
Glycol type	Y	-	-	Propylene
CTG Cooler	Y	6	50%	
CTG Lube Oil Cooler	Y	3	100%	
BFP Heat Exchanger	Y	2	100%	
HRSG Recirc Pump Heat Exchanger	Y	3	100%	
OMPRESSED AIR				
Air Compressors	Y	3	50%	Air-Cooled, Oil-Free, Rotary Screw
Air Dryer/Filters	Y	2	100%	Twin-Tower, Heatless Desiccant with pre- and after-filters
Wet Air Receiver	Y	1	100%	
Dry Air Receiver		1	100%	
Diy All Receiver	Y	1		
	Y	-		
	Y	-		Single pressure, two-stage design, sized for full load operation at max ambient conditior
	Y			
	Y			as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste
	Y			as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass.
	Y			as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv
	Y			as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump
ONDENSATE SYSTEM			100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfor
Air-Cooled Condenser (ACC)	Y	1	100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank	Y	1	100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps	Y Y Y	1 1 3	100% 50%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser	Y Y Y Y	1 1 3 1	100% 50% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank	Y Y Y	1 1 3	100% 50%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED	Y Y Y Y Y Y	1 1 3 1 1	100% 50% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System	Y Y Y Y Y	1 1 3 1 1 3	100% 50% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System	Y Y Y Y Y Y	1 1 3 1 1 3 9	100% 50% 100% 100% 100% 50%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System	Y Y Y Y Y	1 1 3 1 1 3	100% 50% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Doxygen Scavenger System	Y Y Y Y Y Y	1 1 3 1 1 3 9	100% 50% 100% 100% 100% 50%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Doxygen Scavenger System	Y Y Y Y Y Y	1 1 3 1 1 3 9	100% 50% 100% 100% 100% 50%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System Oxygen Scavenger System EMINERALIZED WATER SYSTEM	Y Y Y Y Y Y Y Y	1 1 3 1 1 1 3 9 3	100% 50% 100% 100% 100% 50% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfor and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System EMINERALIZED WATER SYSTEM Demineralized Water Transfer Pumps	Y Y Y Y Y Y Y Y	1 1 3 1 1 1 3 9 3	100% 50% 100% 100% 100% 50% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valu and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System EMINERALIZED WATER SYSTEM Demineralized Water Transfer Pumps Demineralized Water Storage Tank	Y Y Y Y Y Y Y Y Y	1 1 3 1 1 1 3 9 3 3 1	100% 50% 100% 100% 50% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfor and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Drygen Scavenger System EMINERALIZED WATER SYSTEM Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters	Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 1 3 9 3 3 1 2	100% 50% 100% 100% 50% 100% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfor and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an NOx water injection (while firing on fuel oil)
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System Oxygen Scavenger System Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids	Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 1 2 2 2	100% 50% 100% 100% 50% 100% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an
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Air-Cooled Condenser (ACC) Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Dxygen Scavenger System Dxygen Scavenger System EMINERALIZED WATER SYSTEM Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids	Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 1 2 2 2	100% 50% 100% 100% 50% 100% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an NOx water injection (while firing on fuel oil) Skids include booster pumps Includes tank, heater, cartridge filter and forwarding pump
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System	Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 1 2 2 2 2 1	100% 50% 100% 100% 50% 100% 100% 100% 10	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an NOx water injection (while firing on fuel oil) Skids include booster pumps Includes tank, heater, cartridge filter and forwarding pump Each skid will have 2x100% or 3x50% redundancy.
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Drygen Scavenger System EMINERALIZED WATER SYSTEM Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System Chemical Dosing Skids	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 3 1 2 2 2 1 1 9	100% 50% 100% 100% 50% 100% 100% 100% 10	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an NOx water injection (while firing on fuel oil) Skids include booster pumps Includes tank, heater, cartridge filter and forwarding pump
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Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System Chemical Dosing Skids Chemical Totes	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 3 1 2 2 2 1 1 9	100% 50% 100% 100% 50% 100% 100% 100% 10	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfor and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an NOx water injection (while firing on fuel oil) Skids include booster pumps Includes tank, heater, cartridge filter and forwarding pump Each skid will have 2x100% or 3x50% redundancy.
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System Chemical Dosing Skids Chemical Totes	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 3 1 2 2 2 1 1 9	100% 50% 100% 100% 50% 100% 100% 100% 10	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfor and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an NOx water injection (while firing on fuel oil) Skids include booster pumps Includes tank, heater, cartridge filter and forwarding pump Each skid will have 2x100% or 3x50% redundancy. Chemicals as required based on source water quality.
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System Chemical Dosing Skids Chemical Totes	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 3 1 2 2 2 1 1 9	100% 50% 100% 100% 50% 100% 100% 100% 10	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs vertical can-type
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Armonia/Amine System Phosphate System Oxygen Scaveger System EMINERALIZED WATER SYSTEM Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System Chemical Totes EEDWATER SYSTEM	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 1 2 2 1 9 9 9 9	100% 50% 100% 100% 50% 100% 100% 100% 10	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an NOx water injection (while firing on fuel oil) Skids include booster pumps Includes tank, heater, cartridge filter and forwarding pump Each skid will have 2x100% or 3x50% redundarcy. Chemicals as required based on source water quality.
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank rCLE CHEMICAL FEED Ammonia/Amine System Oxygen Scavenger System EMINERALIZED WATER SYSTEM Demineralized Water Transfer Pumps Demineralized Water Transfer Pumps Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System Chemical Dosing Skids Chemical Totes EEDWATER SYSTEM Feedwater pumps	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 3 1 2 2 2 1 1 9	100% 50% 100% 100% 50% 100% 100% 100% 10	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type 3x50% per HRSG Includes 3x100% feed pumps Field erected tank. Sizing based on steam cycle makeup, evaporative cooler makeup, an NOx water injection (while firing on fuel oil) Skids include booster pumps Includes tank, heater, cartridge filter and forwarding pump Each skid will have 2x100% or 3x50% redundarcy. Chemicals as required based on source water quality.
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Oxygen Scavenger System Oxygen Scavenger System Demineralized Water Storage Tank Demineralized Water Storage Tank Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Chemical Dosing Skids Chemical Totes EEDWATER SYSTEM Feedwater pumps RE PROTECTION	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 3 3 3 3 1 2 2 2 2 1 1 9 9 9 9 9	100% 50% 100% 100% 50% 100% 100% 100% 100% 100% 100% 100% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Doxygen Scavenger System Dxygen Scavenger System Demineralized Water Transfer Pumps Demineralized Water Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System Chemical Totes EEDWATER SYSTEM EEDWATER SYSTEM Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Mixed Bed Deminerization System Clean in Place (CIP) System Chemical Totes EEDWATER SYSTEM Feedwater pumps IEF PROTECTION Design Basis	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 9 3 3 1 2 2 2 1 9 9 9 6 -	100% 50% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type
Air-Cooled Condenser (ACC) ACC Condensate Storage Tank Condensate Storage Tank Condensate Pumps Gland Steam Condenser Steam Turbine Flash Tank YCLE CHEMICAL FEED Ammonia/Amine System Phosphate System Dxygen Scavenger System Demineralized WATER SYSTEM Demineralized WATE Storage Tank Reverse Osmosis (RO) Prefilters Two-Pass RO Skids Chemical Dosing Skids Chemical Totes EEDWATER SYSTEM Feedwater pumps IRE PROTECTION	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	1 1 3 1 1 3 3 3 3 3 1 2 2 2 2 1 1 9 9 9 9 9	100% 50% 100% 100% 50% 100% 100% 100% 100% 100% 100% 100% 100% 100%	as defined by Heat Balance, and will include provisions for HRSG warm-up and 100% ste bypass. Includes: Hot box connection with distribution ducts, motor-actuated sectionalizing valv and drains, fin tube bundles and tube cleaning system, 2-100% liquid ring vacuum pump condensate collection headers, steal support structure, two-speed fans, fan deck, platfo and stairs Vertical can-type

		Y/N	Number	% Capacity (per Unit)	Notes
					Electric motor and Diesel driven fire pump taking suction from the Service/Fire Water
	ump supply source(s)	Y	2	100%	Storage Tank. Jockey pump to maintain header pressure and for small leaks.
	orage re loop	Y	1	100%	Combined Service/Fire Water Storage Tank fed from makeup water source Standalone fire loop
FII	le loop	I	-	-	Provided for occupied buildings per NFPA 13 including admin/office areas, laboratories,
					restrooms and warehouse space. A Pre-action sprinkler system will be provided for STG
					bearing protection. A deluge spray system will be provided for STG lube oil storage tank
Sp	prinklers	Y	-	-	and piping.
	oam System	Ν	-	-	
	noke/heat detectors	Y	-	-	Where necessary or recommended by NFPA
Fir	re walls	Y	-	-	2-hr fire walls where required by NFPA
	L				Field Erected tanks sized for 72 hours of GT operation at full load. Additional tank capacit
					of 8 hours of continuous operator of backup diesel generator.
Ste	orage Tank	Y	2	50%	Located within seconary containment structure
					1 x 100% for each combustion turbine unit with 1 x 100% common spare located near fue
Tra	ansfer Pumps	Y	4	100%	oil tank.
110	nloading Pumps	Y	3	100%	Two (2) truck unloading stations. 1 x 100% unloading pump for each unloading station with 1 x 100% common spare.
01	nioaung Pumps	I	3	100%	1 x 100% common spare.
He	eating	Y	4	33%	4 x 33% inline electric heaters with recirculation system. Each heater sized for one CTG.
	uplex Filter	Ŷ	3	100%	One skid for each CTG (provided by CTG supplier)
	eter	Y	3	100%	One for each CTG (provided by CTG supplier)
	YSTEMS				
	uilding electric heaters, exhaust fans and intake louvers, air-				
	nditioning	Y	TBD	100%	As required for occupied buildings and electrical rooms
	JP WATER			-	New well water for supply
	Ipply Source Iell Water Pumps	Y	2	- 100%	New well water for supply
	ell Water Strainer/Filter Skid	Y	1	100%	
	aw Water Storage Tank	Ŷ	1	100%	
	aw Water Ultra Filtration (UF) Filters	Y	2	100%	
UF	F Backwash Tank	Y	1	100%	
	F Backwash Pumps	Y	2	100%	
	nemical Feed Pumps	Y	8	100%	Chemicals as required based on source water quality
Ch	nemical Totes	Y	4	100%	
6.0	un ing /Fing Water Starson Tank	Y	1	100%	Field erected tank, includes immersion heater(s) and insulation. Standpipe for dedicated
	ervice/Fire Water Storage Tank ervice Water Transfer Pumps	Y	2	100%	fire water volume.
	AL GAS	I	2	100%	
	ff-site Pipeline	N	-	-	Natural gas available at an interconnection at/near the site boundary.
	ompression	Ν	-	-	Assume sufficient pressure available
M	etering & Regulation	Y	2	100%	
De	ew Point Heating	Y	3	100%	1 x 100% per CTG. Natural gas fired dew point heaters
					Dual fuel rated (natural gas and ULSD) F-class gas turbine generators provided with inlet silencers, air filtration systems, low Nox combustors, lube oil systems, hydraulic oil system
Co	ombustion Gas Turbine (CTG)	Y	3	33%	starting systems, acoutical enclosures with HVAC, controls, fire protection and fuel system
	Fuel Gas Filter Separator	Y	3	100%	starting systems, acoutical enclosures with move, controls, me protection and rule system
	Fuel Gas Metering Skid	Ŷ	3	100%	
	Fuel Gas Pilot Fuel Filter Separator Skid	Y	3	100%	
	Fuel Gas Heater Skid	Y	3	100%	
	Fuel Gas Knockout Drum	Y	3	100%	
	iel Gas Filter Separator Skid	Y	1	100%	Supply gas filter separator and drains tank
	uel Gas Drains Tank	Y	3	100%	1x100% per CTG
ITROG			1 .	1000/	
	itrogen Bottles, Distribution Manifold E WATER	Y	1	100%	
	ipply Source	Y	-	-	City tap, assumes sufficient pressure and flow
	nergency Eye Wash/Safety Showers	Ŷ	TBD	100%	city tab, assumes sumeent pressure and now
	otable Water Water Heater Tanks	Ŷ	TBD	100%	
	E ANALYSIS		•		
					Sample cycle make-up, reclaim water supply, condensate pump discharge and after
					chemical feed, HRSG water and steam, BFP suction and discharge, and wastewater
	Imple Analysis Panel	Y	1	100%	discharge
	mple Analysis Cooler	Y	1	100%	
	RY SEWER Initary Lift Station	Y	2	100%	Lift station includes 2x100% sewage pumps
	initary Sewer Pumps	Y	4	100%	
	initary Treatment Facility	Ŷ	1	100%	Biotreatment of sanitary waste prior to effluent to existing wastewater outfall
TEAM			1		
_					Multi-stage, reheat, straight-condensing steam turbine including HP, reheat, and LP stear
					from HRSG's. Provided with stop and control valves, non-return valves, hydraulic control
					systems, lube oil systems, exhaust hood spray system, gland steam system including
			1	10004	condenser with exhausters, turning gear, water induction prevention, and turbine contro
	Turbing Community (CTC)			100%	system with DCS interface
	eam Turbine Generator (STG)	Y	1		
	eam Turbine Generator (STG) 'G Atmospheric Drains Tank	Y Y	1	100%	
		Y Y			
		Y Y			Triple pressure level, reheat, natural circulation type with horizontal gas turbing exhaust
		Y Y			
		Y Y			Triple pressure level, reheat, natural circulation type with horizontal gas turbine exhaust flow through vertical tube heat transfer sections. Includes SCR and CO/VOC catalysts. Sel supported stacks with ports for emision monitoring, platforms and ladder access.
ST		Y Y Y			

	Y/N	Number	% Capacity (per Unit)	Notes
				Drains for areas around equipment that could be contaminated with oil will be directed
Contaminated Wastewater	Y	-	-	through an oil/water separator.
Oil/water Separator (OWS)	Y	1	100%	OWS includes 2x100% pumps. Effluent discharged to existing outfall
Plant Drains Sump Pumps	Y	8	100%	Sumps and sump pumps as required
Washwater/False Start Drains Tank	Y	3	100%	1x100% per CTG
Blowdown/Recycle Tank	Y	3	100%	Recover steam drum blowdown and recycle into influent water treatment system
Recycle Pumps	Y	2	100%	
ATHODIC PROTECTION				
Underground Steel Piping	Y	-	-	Cathodic protection system will be galvanic anode type, if required.
Underground Steel Tanks	Y	-	-	Coated with sacrificial anodes, if required.
DEMOLITION	Y	-		Existing buried utilities for coal plant will be demolished as required for new design
ONTROLS				
quipment Control		т	-	
CTG	Y	-		Control system provided by equipment OEM with local HMI for each CTG
STG	Y	-	-	Control system provided by equipment OEM with local HMI Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Medium Voltage Switchgear Motor Control Centers	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Low Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Low Voltage Switchgean		-	-	Provided system will link all CTG and STG controllers and HMI application servers. Provide
Plant Control System	Y	-	-	with redundant ethernet to application servers.
Plant Historian	Y		-	with redundant ethemet to application servers.
Offsite Interfaces	Y	-	-	Dispatching, OEM Monitoring, EKPC Monitoring
Automatic Generation Control	Y	1	1	
				Balance of Plant controls same as CTG and STG control for Siemens. Separate DCS would
Distributed Control System (DCS)	Y	1	100%	needed for GE turbines.
	v			Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
СТБ	Y	-	-	Controllers Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
STG	Y	-	-	Controllers
				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
BOP Critical and High Speed Motors	Y	-		Controllers
Plant Simulator	Y	-	-	EKPC to confirm.
Digital Bus				
Foundation Fieldbus	N	-	-	
Remote I/O	Y	-	-	
nstrumentation	N N	1		
Transmitters	Y	-	-	to shall be to support for first direction
HART Performance Testing	Y	-	-	Install tri-loops on valves for feedback.
Meteorological Station	N	-	-	
Continuous Emissions Monitoring System	Y	3	100%	1x100% per stack. Datalink to DCS
continuous Linissions Monitoring System	1		100%	Redundant relay communications network for protection and control. See Equipment
Relaying Data Link	Y	-	-	Control section for equipment / relay interfaces to the control system.
				Datalinks for Battery Monitoring, Gas Yard, Gas Compressors/Dewpoint Heaters, Air
Communication	Y	-	-	Compresors, CEMS
Dispatching	Y	-	-	Automatic Generation Control through RTU communication
Off site monitoring/administrations	Y	-	-	OEM for Turbine Controller Remote Connection
Switchyard	Y	-	-	Communication Interface with Switchyard RTU
Internal plant	Y	-	-	Need further discussions with EKPC IT to determine how this is handled.
External	Y	-	-	Need further discussions with EKPC IT to determine how this is handled.
VERC CIP Requirements	Y	-	-	EKPC to confirm. E.g. CIP low, medium, etc.
				Stand Alone Controllers with local HMI's. Plant Control HMI located in New Control Room
· · · ·				
IMI	Y	-	-	Admin DCS Room and Switchgear building.
IMI	Y	-	-	
IMI	Y			Admin DCS Room and Switchgear building.
IMI ELECTRICAL Gas Turbine	Y	-	100%	
INI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine	Y Y Y Y	- 3 1		Admin DCS Room and Switchgear building.
IMI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Auxiliary/Reserve Transformers:	Y Y		100% 100%	Admin DCS Room and Switchgear building. Ix100% for each CTG
HNI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Auxiliary/Reserve Transformers: Gas Turbine	Y Y Y Y Y	- 3 1 3	100%	Admin DCS Room and Switchgear building.
HNI ELECTRICAL Gas Turbine Steam Turbine Auxiliary/Reserve Transformers: Gas Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine	Y Y Y	3	100% 100% 100%	Admin DCS Room and Switchgear building.
IMI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Auxiliary/Reserve Transformers: Gas Turbine Generator Buses: Gas Turbine Gas Turbine	Y Y Y Y	3	100% 100% 100% 100%	Admin DCS Room and Switchgear building.
MI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine	Y Y Y	3	100% 100% 100%	Admin DCS Room and Switchgear building.
INI ELECTRICAL Electrator Step-Up Transformers: Gas Turbine Auxiliary/Reserve Transformers: Gas Turbine Electrator Buses: Gas Turbine Steam Turbine Electrator Buses: Steam Turbine Electrator Sizes Siz	Y Y Y Y Y	3 3 1	100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building. Ix100% for each CTG Ix100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for STG
MI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine	Y Y Y Y Y Y	3 3 1 3	100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building.
HNI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Gas Turbine Steam Turbine Gas Turbine Gas Turbine Steam Turbine Steam Turbine Steam Turbine	Y Y Y Y Y Y Y	3 3 1 3 1	100% 100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building. Ix100% for each CTG Ix100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for STG
HNI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Gas Turbine Steam Turbine Gas Turbine Gas Turbine Steam Turbine Steam Turbine Steam Turbine	Y Y Y Y Y Y	3 3 1 3	100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building. Ix100% for each CTG Ix100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for STG Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization
INI ELECTRICAL Electrator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Gas Turbine Steam	Y Y Y Y Y Y Y N	3 3 1 3 1	100% 100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building. Ix100% for each CTG Ix100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for STG Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Base scope will house electrical equipment inside power building, ACC building, or water
INI ELECTRICAL EGenerator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Gas Turbine Steam	Y Y Y Y Y Y Y	3 3 1 3 1 -	100% 100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building. Ix100% for each CTG Ix100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for STG Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization
HII ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Auxiliary/Reserve Transformers: Gas Turbine Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Steam Turbine Jack Start Generator (Cruit Breakers: Gas Turbine Steam Turbine Blackstart Generator(s) and Capability Electrical Equipment Enclosures:	Y Y Y Y Y Y Y N	3 3 1 3 1 -	100% 100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building.
HI ELECTRICAL Electrical Gas Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Steam Turbine Steam Turbine Steam Turbine Steam Turbine Electrical Equipment Enclosures: Witchgear:	Y Y Y Y Y Y Y N	3 3 1 3 1 -	100% 100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building.
HII ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Auxiliary/Reserve Transformers: Gas Turbine Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Steam Turbine Jack Start Generator (Cruit Breakers: Gas Turbine Steam Turbine Blackstart Generator(s) and Capability Electrical Equipment Enclosures:	Y Y Y Y Y Y Y Y Y	3 3 1 3 1 -	100% 100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building.
IMI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Steam Turb	Y Y Y Y Y Y Y Y Y	3 3 1 3 1 -	100% 100% 100% 100% 100% 100%	Admin DCS Room and Switchgear building.
HI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Sas Turbine Sas Turbine Gas Turbine Steam Tur	Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 -	100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
HI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Sas Turbine Sas Turbine Gas Turbine Steam Tur	Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 -	100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
IMI ELECTRICAL Gaerator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam	Y Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - - -	100% 100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
IMI ELECTRICAL Gaerator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam	Y Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - - -	100% 100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
IMI ELECTRICAL Gaerator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam	Y Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - - -	100% 100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
HI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Ste	Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - - -	100% 100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
HI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Ste	Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - -	100% 100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
HMI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Gas Turbine Steam Turbine Blackstart Generator(s) and Capability ELectrical Equipment Enclosures: Switchgear: 4160V Switchgear 480V Switchgear 480V Switchgear 480V MCCs Emergency Power: Uninterruptible Power (UPS)	Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - -	100% 100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
HMI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Steam Turbine Steam Turbine Electrical Equipment Enclosures: Switchgear: 4160V Switchgear 480V Switchgear 480 V MCCS Emergency Power: Uninterruptible Power (UPS) DC System	Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - -	100% 100% 100% 100% 100% 100% - - -	Admin DCS Room and Switchgear building.
HII ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Juiliary/Reserve Transformers: Gas Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Motor Control Centers: 480 V Switchgear Uninterruptible Power (UPS) DC System <td>Y Y Y Y Y Y Y Y Y Y Y Y Y Y</td> <td>3 3 1 3 1 - - - - - - - - - - - - -</td> <td>100% 100% 100% 100% 100% - - - - - -</td> <td>Admin DCS Room and Switchgear building. Ix100% for each CTG Ix100% for each CTG Ix100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for STG Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Configured in a Main-Tie-Main with source transformers and buses rated to power the entire lineup during the loss of a single source Configured in a Main-Tie-Main with source transformers and buses rated to power the entire lineup during the loss of a single source Rated for the operating load A single Balance of Plant UPS system will be provided for the STG and BOP loads. The CTG OEM will provide the essential system for their equipment and safe shutdown. A single Balance of Plant DC system will be provided for the STG and BOP loads. The CTG OEM will provide the essential system for their equipment and safe shutdown. Standby diesel generator rated for OEM and BOP Essential operating loads as well as heal</td>	Y Y Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - - - - - - - - - - - - -	100% 100% 100% 100% 100% - - - - - -	Admin DCS Room and Switchgear building. Ix100% for each CTG Ix100% for each CTG Ix100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for STG Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Configured in a Main-Tie-Main with source transformers and buses rated to power the entire lineup during the loss of a single source Configured in a Main-Tie-Main with source transformers and buses rated to power the entire lineup during the loss of a single source Rated for the operating load A single Balance of Plant UPS system will be provided for the STG and BOP loads. The CTG OEM will provide the essential system for their equipment and safe shutdown. A single Balance of Plant DC system will be provided for the STG and BOP loads. The CTG OEM will provide the essential system for their equipment and safe shutdown. Standby diesel generator rated for OEM and BOP Essential operating loads as well as heal
HMI ELECTRICAL Generator Step-Up Transformers: Gas Turbine Steam Turbine Gas Turbine Gas Turbine Gas Turbine Gas Turbine Steam Turbine Gas Turbine Steam Turbine Blackstart Generator(s) and Capability ELectrical Equipment Enclosures: Switchgear: 4160V Switchgear 480V Switchgear 480V Switchgear Motor Control Centers: 480 V MCCS Emergency Power: Uninterruptible Power (UPS)	Y Y Y Y Y Y Y Y Y Y Y Y Y Y	3 3 1 3 1 - - - - - - - - - - - - -	100% 100% 100% 100% 100% - - - - - -	Admin DCS Room and Switchgear building. Ix100% for each CTG Ix100% for each CTG Ix100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for each CTG Isolated Phase Bus: 1x100% for STG Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Generator Circuit Breaker in Isolated Phase Bus for Synchronization Configured in a Main-Tie-Main with source transformers and buses rated to power the entire lineup during the loss of a single source Configured in a Main-Tie-Main with source transformers and buses rated to power the entire lineup during the loss of a single source Rated for the operating load A single Balance of Plant UPS system will be provided for the STG and BOP loads. The CTG OEM will provide the essential system for their equipment and safe shutdown. A single Balance of Plant DC system will be provided for the STG and BOP loads. The CTG OEM will provide the essential system for their equipment and safe shutdown. Standby diesel generator rated for OEM and BOP Essential operating loads as well as heal

	Y/N	Number	% Capacity (per Unit)	Notes
Building/Site Security	Y		-	
Plant Communications	Y	-	-	
n-Line Battery Monitoring:	Y	-	-	
ghting	-			
Normal	Y	-	-	LED-lighting; lighting required for new road and plant buildings.
Emergency Egress	Y	-	-	Local battery pack fixtures will be provided for emergency egress.
rounding ghtning Protection	Y Y	-	-	New grounding grid A UL Master Label will be provided for the new facility.
reeze Protection	Y	-	-	Heat tracing designed to maintain 40F for fluids subject to freezing based on size and service
ectrical Studies:	1	1		
Load Flow, voltage drop, short circuit	Y			Identify equipment and bus loading, motor terminal voltages and available fault currents each voltage level
Protective coordination/relay settings	Y	-	-	
Arc Flash	Y	-	-	
abling	Y	-	-	Cable tray and field routed conduit above grade, duct bank below grade
ransmission / Interconnection:	N	-	-	Per EKPC
VIL/STRUCTURAL				
risting Facilities	N	-	-	Greenfield site. Not applicable
yout Considerations	Y	-	-	Tie-ins to new gas pipeline and transmission.
sposal of Spoils	-	-	-	Excess spoils will be disposed of on-site, used for fill if possible. No hazardous materials accounted for in project estimate.
ils Conditions / Stability	_		_	No geotechnical information known at this time. Geotech will need to be completed to confirm. No special considerations included at this time.
bil Improvement	N	-	-	No soil improvement is assumed
ibsurface Rock	N		-	Assume no rock excavation required.
ibsurface water	N	-	-	No dewatering included.
ut/Fill	-	-	-	Use existing site materials to grade the site and avoid off-site borrow.
sposal of debris	-	-	-	Disposed of on-site.
ermanent Stormwater	-	-	-	New stormwater to be collected in ditches and routed to new permitted outfall
				Erosion control will be in accordance with state and local guidelines and regulations and include best management practices such as silt fence, rock check dams, slope protection construction exits, and stormwater pond(s) for construction and permanent. A SWPPP we because the superscription of the supersc
onstruction Stormwateroads	- Y	-	-	be prepared. All new roads for site
urfacing	-	-	-	Main access roads shall be paved. Maintenance roads and areas will be covered with crushed rock. Other areas top soil and seeded.
				Soil bearing capacity not available. To be determined by geotechnical investigation. Foundation types assumed as noted below based on an allowable bearing capacity of
oil Bearing Capacity	-	-	-	approximately 2,500 psf. Assume CTG, STG, HRSG, ACC, and Generation Building will be pile-supported. All other
oundation type	-	-	-	equipment/structures will be supported on shallow foundations (mats or footings). A geotechnical investigation will be needed to confirm these assumptions.
ransformer Containment	-	-	-	Containment for oil-filled transformer will be provided with an open pit design.
nclosures				
				Building housing CTG, HRSG, STG, and Aux Boiler (including control room, warehouse spa administrative space with offices, and machine shop)
Generation Building	Y	1	100%	Building cranes included for CTG and STG
Water Treatment Building	Y	1	100%	Building housing water treament equipment and fire water pumps
ACC Building	Y	1	100%	Building to house ACC equipment and electrical
Electrical (see electrical section) Warehouse/Admin Facilities	Y	- 1	- 100%	
Maintenance Shops	Y	1	100%	
laintenance cranes	Y	-	-	
uardshack	Y			New guard shack
te Security	-	-	-	Included in Owner's costs
andscaping	-	-	-	Minimal landscaping included. Disturbed areas will be seeded for erosion control.
ence	Y			New fence around perimeter of new plant facilities
ONSTRUCTION		1	1	
tilities	v		-	Construction neuror from aux generators
Power Communication	Y	-	-	Construction power from aux. generators Cellular
Construction Water	Y		-	Tie into new well
	T	-	-	Trucked until City potable tie-in connection is commissioned
Potable Water	Y	-		
Sanitary	Y	-	-	Portable facilities provided by construction contractors New permanent parking adjacent to Generation building and Water Treament building.
Sanitary arking		-		
Sanitary arking ate Entry	Y	-	-	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified.
Sanitary arking ate Entry Main Personnel/Craft	Y Y - -	-	-	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance
Sanitary arking ate Entry Main Personnel/Craft Delivery	Y Y -	-	-	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack
Sanitary arking ate Entry Main Personnel/Craft Delivery ponstruction Field Office / Trailers	Y Y - -	-	-	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New slide gate for construction
Sanitary arking ate Entry Main Personnel/Craft Delivery Dustruction Field Office / Trailers Owner	Y Y - -	-	-	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New silde gate for construction Trailers in Owners Costs.
Sanitary arking ate Entry Main Personnel/Craft Delivery onstruction Field Office / Trailers	Y Y - - - Y	-		New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New slide gate for construction
Sanitary arking ate Entry Main Personnel/Craft Delivery onstruction Field Office / Trailers Owner Engineer	Y Y - - - - - Y Y	-	-	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New slide gate for construction Trailers in Owners Costs. Trailers in Owners Costs.
Sanitary arking ate Entry Main Personnel/Craft Delivery onstruction Field Office / Trailers Owner Engineer Vendors	Y Y - - - Y Y Y	- - - - - -		New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New slide gate for construction Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs.
Sanitary arking ate Entry Main Personnel/Craft Delivery Owner Engineer Vendors Contractors Site Services	Y Y - - - - Y Y Y Y Y		- - - - - - - - - -	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New slide gate for construction Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. On site areas to be identified
Sanitary San	Y Y - - - - - Y Y Y Y Y		- - - - - - - - - - - -	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New silde gate for construction Trailers in Owners Costs. Trailers in Owners Costs.
Sanitary arking atte Entry Main Personnel/Craft Delivery onstruction Field Office / Trailers Owner Engineer Vendors Contractors Sitte Services aydown area Varehouses WWRER COSTS / MISC.	Y Y - - - Y Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New slide gate for construction Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. On site areas to be identified
Sanitary arking ate Entry Main Personnel/Craft Delivery onstruction Field Office / Trailers Owner Engineer Vendors Contractors Site Services aydown area Varehouses WNER COSTS / MISC. ermits See Permit Matrix	Y Y - - - Y Y Y Y Y Y	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New slide gate for construction Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. Trailers in Owners Costs. On site areas to be identified
Sanitary San	Y Y - - - Y Y Y Y Y Y Y Y	-	- - - - - - - - - - - - - - - -	New permanent parking adjacent to Generation building and Water Treament building. Temporary construction parking to be identified. New guard shack New main gate/consturction entrance New slide gate for construction Trailers in Owners Costs. Trailers in Owners Costs. Torailers in Owners Costs. Torailers in Owners Costs. On site areas to be identified Contractor will provide necessary storage space during construction.

	Y/N	Number	% Capacity (per Unit)	Notes
Owner's Project Management	Y	-	-	Allowance to be included
Owner's Engineer	N	-	-	
Owner's Legal Counsel	Y	-	-	Allowance to be included
Political Concessions / Area Development Fees	Y	-	-	Allowance to be included
Permitting & License Fees	Y	-	-	Allowance to be included
Land	Y	-	-	Allowance to be included
Water Rights Costs	Y	-	-	Allowance to be included
Water Infrastructure and Supply to Site	Y	-	-	New well water for supply
Natural Gas Infrastructure and Supply to Site	N	-	-	Existing pipeline adjacent to site
Labor Camp	N	-	-	
Permanent Plant Operating Spare Parts	Y	-	-	Allowance to be included
Maintenance Tools & Equipment	Y	-	-	Allowance to be included
Permanent Plant Equipment & Furnishings	Y	-	-	Allowance to be included
Sales Tax	Y	-	-	Sales tax is excluded, other than for non-permanent consumables and supplies
Escalation	Y	-	-	Allowance to be included
Owner's Contingency	Y	-	-	Allowance to be included
Interest During Construction	N	-	-	Excluded
Temporary Utilities	Y	-	-	Included in EPC costs
Startup Testing Fuels and Consumables	Y	-	-	Allowance to be included
Operator training	Y	-	-	Allowance to be included
Site Security	Y	-	-	Allowance to be included
KCLUSIONS				
Taxes	-	-	-	Sales, use, gross receipts, property, and other types.
Insurance	-	-	-	All insurance other than General Liability being carried as a project cost
Sound abatement above normal supply	-	-	-	
Aesthetic landscaping other than erosion control	-	-	-	
High escalation assocated with extreme market conditions	-	-	-	
Financing fees	-	-	-	
Interest during construction	-	-	-	

East Kentucky Power Cooperative Smith Simple Cycle Scope Assumptions Matrix

BURNS

	Y/N	Number	% Capacity (per Unit)	Notes
ENERAL PROJECT INFORMATION		-		New (in (F) advanted Fielder adval for brack along the state of the brack of (CTC)
roject Description	-	_	_	New five (5) advanced F-class, dual-fuel rated, simple cycle combustion turbines (CTGs) The new CTGs and associated auxiliary equipment will be located indoors.
Project Location	-	-	_	Clark County, KY.
Site Description	-	-	-	Existing brownfield site at J. K. Smith Station.
Design Fuel	-	-	-	Existing natural gas pipeline at site with fuel oil backup (ultra low sulfur diesel)
Heat Rejection	-	-	-	N/A
Operation	-	-	-	Peaking
Capacity Factor	-	-	-	<35%
Contracting Approach	-	-	-	Multi-prime.
Labor	-	-	-	Union or Non-Union.
Project Liquidated Damages	-	-	-	Schedule and performance for each contract.
Project Bonding /LOC	-	-	-	100% Bonding.
Project COD Dates	-	-	-	2030
Project Expansion	-	-	-	Future expansion into 2x1 combined cycle with two units located in existing coal plant a
IECHANICAL SYSTEMS/EQUIPMENT				1
OSED COOLING WATER (CCW)	M	-	40000	4 - 4000/
Air-Cooled Heat Exchanger (ACHE)	Y Y	5	100% 100%	1 x 100% per unit
CCW Pumps		10		2 x 100% per unit
CCW Expansion Tank	Y	5	100%	1 x 100% per unit
CTG Cooler	Y	20	25%	4 x 25% per unit
CTG Lube Oil Cooler	Y	10	50%	2 x 50% per unit
OMPRESSED AIR	Y	2	100%	Air Cooled Oil Free Betery Screw
Air Compressors	Y	2	100%	Air-Cooled, Oil-Free, Rotary Screw
Air Dryer/Filters	Y	1	100%	Twin-Tower, Heatless Desiccant with pre- and after-filters
Wet Air Receiver				
Dry Air Receiver	Y	1 5	100% 100%	1 x 100% per upit
Pulse Air Receivers	T	5	100%	1 x 100% per unit
OMPRESSED GASES Bulk CO2 Storage Skid	Y	1	100%	Bulk storage vessel with condensing unit, vaporizer, and regulation
EMINERALIZED WATER SYSTEM				Destable Destingentional Technol
Supply Source	-	-	-	Portable Demineralized Trailers
Demineralized Water Transfer Pumps	Y	6	100%	1 x 100% per unit with common spare
				Field erected tank. Sizing based on evaporative cooler makeup and NOx water injection
Demineralized Water Storage Tank	Y	1	100%	(while firing on fuel oil) for all five new units
RE PROTECTION		1		
Design Basis	Y	-	-	NFPA 850 recommended practice.
Insurer/special requirements	Y	-	-	FM Global
CTG Fire Protection	Y	-	-	CO2 and alarm
Electrical Equipment Rooms / PCMs	Y	-	-	CO2 and alarm
			1000/	Electric motor and Diesel driven fire pump taking suction from the Service/Fire Water
Pump supply source(s)	Y	2	100%	Storage Tank. Jockey pump to maintain header pressure and for small leaks.
Storage	Y	1	100%	Combined Service/Fire Water Storage Tank fed from makeup water source
Fire loop	Y	-	-	Extension of existing fire loop to encompass new units
				Provided for occupied buildings per NFPA 13 including admin/office areas, laboratories,
Sprinklers	Y	-	-	restrooms and warehouse space.
Foam System	N	-	-	
Smoke/heat detectors	Y	-	-	Where necessary or recommended by NFPA
Fire walls	Y	-	-	2-hr fire walls where required by NFPA
UEL OIL				Field Fracted tank sized for 72 hours of GT aparation at full load. Located within second
Channes Taul	v	2	500/	Field Erected tank sized for 72 hours of GT operation at full load. Located within second
Storage Tank	Y	2	50%	containment structure
Forwarding Dumps	v	-	1000/	1 x 100% for each combustion turbine unit with 1 x 100% common spare located near f
Forwarding Pumps	Y	6	100%	oil tank.
Heles dias Duran		-		Two (2) truck unloading stations. 1 x 100% unloading pump for each unloading station v
Unloading Pumps	Y	3	100%	1 x 100% common spare.
Transfer Pump	Y	1	100%	Transfer diesel fuel to diesel fire pump day tank
		_		3 x 50% inline electric heaters with recirculation system. Each heater sized for 50% of to
Heating	Y	3	50%	plant fuel oil flow (all five new units).
Duplex Filter	Y	5	100%	One skid for each CTG (provided by CTG supplier)
Meter	Y	5	100%	One for each CTG (provided by CTG supplier)
VAC SYSTEMS		1		
Building electric heaters, exhaust fans and intake louvers, air-				As your first fact a constant to the table of table
conditioning	Y	TBD	100%	As required for occupied buildings and electrical rooms
1AKE-UP WATER				Eviating angles algorithm strategy for the second strategy of the second strategy of the second strategy of the
Summer Services				Existing onsite clarified water fed from Kentucky River. Tie point will be downstream of
Supply Source	-	-	-	existing clarifier
Clarified Water Transfer Pumps	Y	2	100%	
Clarified Water Storage Tank	Y	1	100%	
Clarified Water Ultra Filtration (UF) Filters	Y	2	100%	
UF Backwash Tank	Y	1	100%	
	Y	2	100%	
UF Backwash Pumps	Y	8	100%	Chemicals as required based on source water quality
Chemical Feed Pumps			100%	Participants of south the device terms of the term of the term of the terms of
	Ŷ	4		Field erected tank, includes immersion heater(s) and insulation. Standpipe for dedicate
Chemical Feed Pumps Chemical Totes	Y			Construction of the second sec
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage	Y Y	1	100%	fire water volume.
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage Service Water Pumps	Y		100% 100%	fire water volume.
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage Service Water Pumps ATURAL GAS	Y Y Y	1 2	100%	
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage Service Water Pumps ATURAL GAS Off-site Pipeline	Y Y Y N	1 2 -	-	Natural gas available at an interconnection at/near the site boundary.
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage Service Water Pumps ATURAL GAS Off-site Pipeline Compression	Y Y Y N N	1 2 - -		
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage Service Water Pumps ATURAL GAS Off-site Pipeline Compression Metering & Regulation	Y Y Y N N Y	1 2 - - 2	100% - - 100%	Natural gas available at an interconnection at/near the site boundary. Assume sufficient pressure available
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage Service Water Pumps ATURAL GAS Off-site Pipeline Compression	Y Y Y N N	1 2 - -		Natural gas available at an interconnection at/near the site boundary.
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage Service Water Pumps ATURAL GAS Off-site Pipeline Compression Metering & Regulation	Y Y Y N N Y	1 2 - - 2	100% - - 100%	Natural gas available at an interconnection at/near the site boundary. Assume sufficient pressure available 1 x 100% per CTG. Natural gas fired dew point heaters
Chemical Feed Pumps Chemical Totes Service/Fire Water Storage Service Water Pumps ATURAL GAS Off-site Pipeline Compression Metering & Regulation	Y Y Y N N Y	1 2 - - 2	100% - - 100%	Natural gas available at an interconnection at/near the site boundary. Assume sufficient pressure available

	Y/N	Number	% Capacity (per Unit)	Notes
Fuel Gas Filter Separator	Y	5	(per Unit) 100%	1 x 100% per CTG
Fuel Gas Metering Skid	Y	5	100%	1 x 100% per CTG
Fuel Gas Pilot Fuel Filter Separator Skid	Y	5	100%	1 x 100% per CTG
Fuel Gas Heater Skid	Y	5	100%	1 x 100% per CTG
Fuel Gas Knockout Drum	Y	5	100%	1 x 100% per CTG
Fuel Gas Filter Separator Skid	Y	2	50%	Supply gas filter separator and drains tank
Fuel Gas Drains Tank	Y	5	100%	1 x 100% per CTG
OTABLE WATER		1		
Supply Source	Y	-	-	City tap, assumes sufficient pressure and flow
Emergency Eye Wash/Safety Showers Potable Water Instantaneous Heaters	Y	8	100% 100%	
Potable Water Water Heater Tank	Y	1	100%	
ANITARY SEWER		-	100%	
Sanitary Lift Station	Y	2	100%	Each lift station includes 2x100% sewage pumps
Sanitary Sewer Pumps	Y	4	100%	
Sanitary Treatment Facility	Y	1	100%	Package treatment of sanitary waste prior to effluent to existing wastewater outfall
ASTEWATER		•		
				Drains for areas around equipment that could be contaminated with oil will be directed
Contaminated Wastewater	Y	-	-	through an oil/water separator.
Oil/water Separator (OWS)	Y	2	100%	Each OWS includes 2x100% pumps. Effluent discharged to existing outfall
Plant Drains Sump Pumps	Y	5	100%	Sumps and sump pumps as required
CTG Water Wash Skid	Y	1	100%	
Washwater/False Start Drains Tank	Y	5	100%	1 x 100% per CTG
ATHODIC PROTECTION				
Underground Steel Piping	Y	-	-	Cathodic protection system will be galvanic anode type, if required.
Underground Steel Tanks	Y	-	-	Coated with sacrificial anodes, if required.
EMOLITION	Y	-	-	Existing buried utilities for coal plant will be demolished as required for new design
ONTROLS			1	
uipment Control	<u> </u>	1		
CTG	Y	-	-	Control system provided by equipment OEM with local HMI for each CTG
Medium Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Motor Control Centers	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Low Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Plant Control System				Provided system will link all CTG controllers and HMI application servers. Provided with
	Y	-	-	redundant ethernet to application servers.
Plant Historian	Y	-	-	Disectables OFMANA situates FKDC Masterias
Offsite Interfaces		-	-	Dispatching, OEM Monitoring, EKPC Monitoring
utomatic Generation Control	Y			Balance of Plant controls same as CTG control for Siemens. Separate DCS would be need
Distributed Control System (DCS)	Y	1	100%	for GE turbines.
				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
СТБ	Y	-	-	Controllers Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
BOP Motors for Critical or High Speed Applications	Y	-	-	Controllers
lant Simulator	Y	-	-	EKPC to confirm.
igital Bus				
Foundation Fieldbus	N	-	-	
Remote I/O	Y	-	-	
strumentation				
Transmitters	Y	-	-	
HART	Y	-	-	Install tri-loops on valves for feedback.
Performance Testing	Y	-	-	
Meteorological Station	N	-	-	
ontinuous Emissions Monitoring System	Y	5	100%	1x100% per stack. Datalink to DCS
elaying Data Link	Y	-	-	Redundant relay communications network for protection and control. See Equipment Control section for equipment / relay interfaces to the control system.
ommunication	Y	-		Datalinks for Battery Monitoring, Gas Yard, Gas Compressors/Dewpoint Heaters, Air Compresors, CEMS
Dispatching	Y	-	-	Automatic Generation Control through RTU communication
Off site monitoring/administrations	Y	-	-	OEM for Turbine Controller Remote Connection
Switchyard	Y	-	-	Communication Interface with Switchyard RTU
Internal plant	Y	-	-	Need further discussions with EKPC IT to determine how this is handled.
External	Y	-	-	Need further discussions with EKPC IT to determine how this is handled.
ERC CIP Requirements	Y	-	-	EKPC to confirm. E.g. CIP low, medium, etc.
		1	1	Stand Alone Controllers with local HMI's. Plant Control HMI located in New Control Roo
МІ	Y	-	-	Admin DCS Room and Switchgear building.
ECTRICAL				
enerator Step-Up Transformers:				
Gas Turbine	Y	5	100%	1 x 100% for each CTG
uxiliary/Reserve Transformers:				
				Each auxiliary transformer sized to source the associated unit and provide backup to an
Gas Turbine	Y	5	100%	adjacent unit
enerator Buses:				
	Y	5	100%	Isolated Phase Bus: 1 x 100% for each CTG
Gas Turbine				
Gas Turbine				Generator Circuit Breaker in Isolated Phase Bus for Synchronization
Gas Turbine	Y	5	100%	
Gas Turbine enerator Circuit Breakers: Gas Turbine	1	5	- 100%	
Gas Turbine enerator Circuit Breakers: Gas Turbine ackstart Generator(s) and Capability	Y N			Base scope will house electrical equipment inside power building or water treament
Gas Turbine enerator Circuit Breakers: Gas Turbine ackstart Generator(s) and Capability ectrical Equipment Enclosures:	Y			
Gas Turbine enerator Circuit Breakers: Gas Turbine lackstart Generator(s) and Capability ectrical Equipment Enclosures:	Y N	-	-	Base scope will house electrical equipment inside power building or water treament building.
Gas Turbine enerator Circuit Breakers: Gas Turbine lackstart Generator(s) and Capability ectrical Equipment Enclosures: witchgear:	Y N Y	-	-	Base scope will house electrical equipment inside power building or water treament building. Configured in a Main-Tie-Main with source transformers and buses rated to power the
Gas Turbine enerator Circuit Breakers: Gas Turbine lackstart Generator(s) and Capability ectrical Equipment Enclosures:	Y N	-	-	Base scope will house electrical equipment inside power building or water treament building. Configured in a Main-Tie-Main with source transformers and buses rated to power the entire lineup during the loss of a single source
Gas Turbine enerator Circuit Breakers: Gas Turbine ackstart Generator(s) and Capability ectrical Equipment Enclosures: vitchgear:	Y N Y	-	-	Base scope will house electrical equipment inside power building or water treament building. Configured in a Main-Tie-Main with source transformers and buses rated to power the

BURNS MEDONNELL

	Y/N	Number	% Capacity (per Unit)	Notes
480 V MCCs	Y	-	-	Rated for the operating load
mergency Power:				
				A single Balance of Plant UPS system will be provided for the BOP loads. The CTG OEM w
Uninterruptible Power (UPS)	Y	-	-	provide the essential system for their equipment and safe shutdown.
DC Sustan	Y		-	A single Balance of Plant DC system will be provided for the BOP loads. The CTG OEM will provide the essential system for their equipment and safe shutdown.
DC System	ř	-	-	Standby diesel generator rated for OEM and BOP Essential operating loads as well as hea
tandby Diesel Generator	Y	_	-	trace to maintaining a safe shutdown condition.
tand Alone Control Systems		1		
Fire Protection/Detection	Y	-	-	See fire protection section in Mechanical for details
Plant HVAC	Y	-	-	See HVAC section in Mechanical for details
Building/Site Security	Y	-	-	
Plant Communications	Y	-	-	
n-Line Battery Monitoring:	Y	-	-	
ghting		•		
Normal	Y	-	-	LED-lighting; lighting required for new road and plant buildings.
Emergency Egress	Y	-	-	Local battery pack fixtures will be provided for emergency egress.
rounding	Y	-	-	Brownfield site. New grounding grid with ties to the existing plant grid as applicable.
ightning Protection	Y	-	-	A UL Master Label will be provided for the new facility.
				Heat tracing designed to maintain 40F for fluids subject to freezing based on size and
reeze Protection	Y	-	-	service
lectrical Studies:				
				Identify equipment and bus loading, motor terminal voltages and available fault currents
Load Flow, voltage drop, short circuit	Y	-	-	each voltage level
Protective coordination/relay settings	Y	-	-	
Arc Flash	Y	-	-	
abling	Y	-	-	Cable tray and field routed conduit above grade, duct bank below grade
ransmission / Interconnection:	N	-		Per EKPC
IVIL/STRUCTURAL			1	
at a transmission of the transmission of transmission of the transmission of transmission of the transmission of transmiss				Brownfield site. Tie into existing Smith system (roads, storm drainage). Topographic sur-
xisting Facilities	Y	-	-	of the plant areas will be required.
				Reuse part of existing infrastructure and road from previous coal plant construction for t
				CTGs. Utilize open slots (8, 11, 12) for three remaining CTGs adjacent to existing simple
ayout Considerations	Y	-	-	cycle CTGs
				Excess spoils will be disposed of on-site, used for fill if possible. No hazardous materials
Disposal of Spoils	-	-	-	accounted for in project estimate.
				Two of the new simple cycle CTGs will be in area of coal-fired unit. No geotechnical
- II- Constitutions / Charle III-				information provided for coal-fired unit area. Estimate assumptions generally based on
oils Conditions / Stability	-	-	-	geotechnical information for existing Units -12 combustion turbines.
oil Improvement	N	-	-	No soil improvement is assumed
ubsurface water	N	-	-	Assume no rock excavation required.
Cut/Fill	-	-	-	No dewatering included.
Lut/Fill	-	-	-	Use existing site materials to grade the site and avoid off-site borrow. Disposed of on-site. However, debris from the existing foundation demolition and existin
Disposal of debris				buried piping demolition would have to be transported to a permitted facility or the facil
Disposal of debris	-	-	-	on-site would have to be pemitted for this use. Existing.
Permanent Stormwater				New surface water drainage ditches and piping to collect and direct to offsite outfall.
	_		_	Regrading as required to follow existing drainage paths.
				Erosion control will be in accordance with state and local guidelines and regulations and
				include best management practices such as silt fence, rock check dams, slope protection,
				construction exits, and stormwater pond(s) for construction and permanent. A SWPPP w
Construction Stormwater	_	-	-	be prepared.
toads	N	-	-	Existing plant roads to allow for deliveries via truck.
				Main access roads shall be paved with asphaltic concrete. Maintenance roads and areas
urfacing	-	-	-	be covered with crushed rock. Other areas top soil and seeded.
				Soil bearing capacity not available. To be determined by geotechnical investigation.
				Foundation types assumed as noted below based on an allowable bearing capacity of
oil Bearing Capacity	-	-	-	approximately 2,500 psf.
• • •		1	1	Assume CTG's will be pile-supported. All other equipment/structures will be supported of
Foundation type				shallow foundations (mats or footings). A geotechnical investigation will be needed to
	-	-	-	confirm these assumptions.
ransformer Containment	-	-	-	Containment for oil-filled transformer will be provided with an open pit design.
inclosures	1	- I		
CTG Enclosures	Y	5	100%	Enclosure housing each CTG
Water Treatment Building	Y	1	100%	Building housing water treament equipment and fire water pumps
Electrical (see electrical section)	Ŷ	-	-	
Warehouse/Admin Facilities	Y	1	100%	
Maintenance cranes	N	-	-	
Guardshack	N			Existing Smith gaurdshack used.
Site Security	-	-	-	Included in Owner's costs
andscaping	-	-	-	Minimal landscaping included. Disturbed areas will be seeded for erosion control.
ence	N			Assume existing perimeter security fence is adequate for new plant
ONSTRUCTION				
Itilities				
Power	Y	-	-	Construction power from existing J.K Smith facility
Communication	Y	-	-	Tie-in to existing system
Construction Water	Ŷ	-	-	Tie-in to existing J.K. Smith facility service water system
Potable Water	Y	-	-	Tie-in to existing J.K. Smith facility potable water system
Sanitary	Ŷ	-	-	Portable facilities provided by construction contractors
			1	New permanent parking adjacent to Admin/Warehouse building and Water Treament
Parking	Y	-	-	building. Temporary construction parking to be identified.
Gate Entry	- I .	1	1	
		-	-	Existing Smith guard shack.
Main	-	-	-	

East Kentucky Power Cooperative Smith Simple Cycle Scope Assumptions Matrix

	Y/N	Number	% Capacity (per Unit)	Notes
Delivery	-	-	-	New slide gate for construction.
onstruction Field Office / Trailers				
Owner	Y	-	-	Trailers in Owners Costs.
Engineer	Y	-	-	Trailers in Owners Costs.
Vendors	Y	-	-	Trailers in Owners Costs.
Contractors	Y	-	-	Trailers in Owners Costs.
Site Services	Y	-	-	Trailers in Owners Costs.
ydown area	Y	-	-	On site areas to be identified
·				Existing warehouse is full; Contractor will provide necessary storage space during
/arehouses	Y	-	-	construction.
WNER COSTS / MISC.				
ermits				
See Permit Matrix	Y	-	-	EKPC w/ BMcD Support.
wner's Costs				
Project Development	Y	-	-	Allowance to be included
Owner's Operations Personnel	Y	-	-	Allowance to be included
Owner's Project Management	Y	-	-	Allowance to be included
Owner's Engineer	N	-	-	
Owner's Legal Counsel	Y	-	-	Allowance to be included
Political Concessions / Area Development Fees	Y	-	-	Allowance to be included
Permitting & License Fees	Y	-	-	Allowance to be included
Land	N	-	-	Brownfield, existing
Water Rights Costs	Y	-	-	Allowance to be included
Water Infrastructure and Supply to Site	N	-	-	Existing
Natural Gas Infrastructure and Supply to Site	N	-	-	N/A, reuse existing
Labor Camp	N	-	-	
Permanent Plant Operating Spare Parts	Y	-	-	Allowance to be included
Maintenance Tools & Equipment	Y	-	-	Allowance to be included
Permanent Plant Equipment & Furnishings	Y	-	-	Allowance to be included
Sales Tax	Y	-	-	Sales tax is excluded, other than for non-permanent consumables and supplies
Escalation	Y	-	-	Allowance to be included
Owner's Contingency	Y	-	-	Allowance to be included
Interest During Construction	N	-	-	Excluded
Temporary Utilities	Y	-	-	Included in EPC costs
Startup Testing Fuels and Consumables	Y	-	-	Allowance to be included
Operator training	Y	-	-	Allowance to be included
Site Security	Y	-	-	Allowance to be included
ENERAL ASSUMPTIONS				
				Existing equipment, piping, cables, etc. are in adequate working order and can be reused
Reuse of Existing Equipment and Systems	Y	-	-	without modifications
KCLUSIONS				
Taxes	-	-	-	Sales, use, gross receipts, property, and other types.
Insurance	-	-	-	All insurance other than General Liability being carried as a project cost
Sound abatement above normal supply	-	-	-	
Aesthetic landscaping other than erosion control	-	-	-	
High escalation assocated with extreme market conditions	-	-	-	
Financing fees	-	-	-	
Interest during construction	-	-	-	

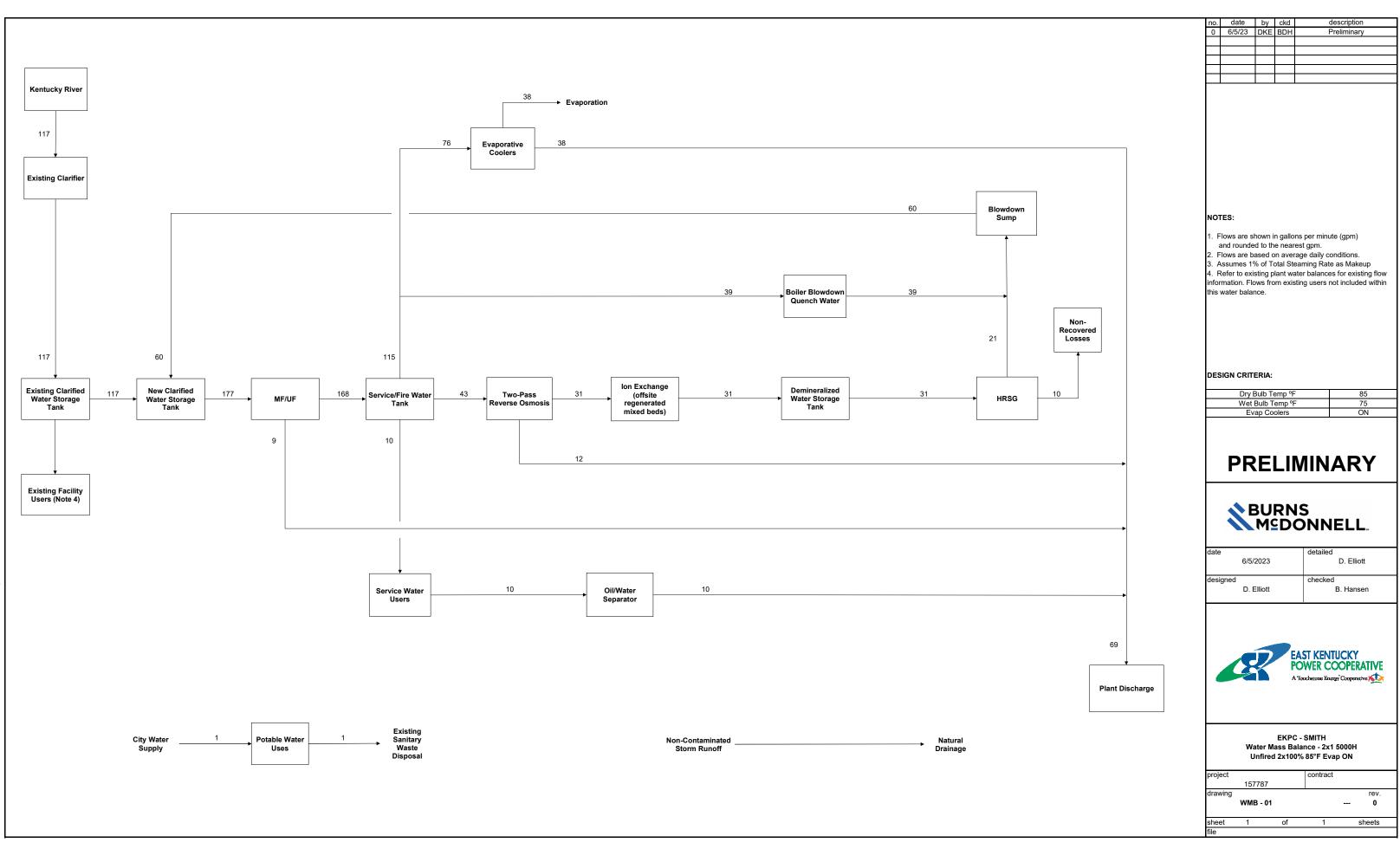
	Y/N	Number	% Capacity (per Unit)	Notes
NERAL PROJECT INFORMATION			(per erre)	
				New three (3) advanced F-class, dual-fuel rated, simple cycle combustion turbines (CTGs
oject Description	-	-	-	The new CTGs and associated auxiliary equipment will be located indoors.
Project Location Site Description	-	-	-	Greenup County, KY. New greenfield site at Tygart Creek site #2.
Site Description	-	-	-	New greenheid site at rygart creek site #2.
Design Fuel				New tie to nearby natural gas pipeline at site with fuel oil backup (ultra low sulfur diese
Heat Rejection	-	-	-	N/A
Operation	-	-	-	Peaking
Capacity Factor	-	-	-	<35%
Contracting Approach	-	-	-	Multi-prime.
Labor	-	-	-	Union or Non-Union.
Project Liquidated Damages	-	-	-	Schedule and performance for each contract.
Project Bonding /LOC	-	-	-	100% Bonding.
Project COD Dates Project Expansion	-	-	-	2030 Leave room for future expansion/additional simple cycle units
CHANICAL SYSTEMS/EQUIPMENT	-	-	-	
DSED COOLING WATER (CCW)			1	
Air-Cooled Heat Exchanger (ACHE)	Y	3	100%	1 x 100% per unit
CCW Pumps	Y	6	100%	2 x 100% per unit
CCW Expansion Tank	Y	3	100%	1 x 100% per unit
CTG Cooler	Y	12	25%	4 x 25% per unit
CTG Lube Oil Cooler	Y	6	50%	2 x 50% per unit
MPRESSED AIR	V	-	40000	Ale Cashel O'l Face Datas Course
Air Compressors	Y Y	2	100% 100%	Air-Cooled, Oil-Free, Rotary Screw
Air Dryer/Filters Wet Air Receiver	Y	1	100%	Twin-Tower, Heatless Desiccant with pre- and after-filters
Dry Air Receiver	Y	1	100%	
Pulse Air Receivers	Y	3	100%	1 x 100% per unit
MPRESSED GASES	_			
Bulk CO2 Storage Skid	Y	1	100%	Bulk storage vessel with condensing unit, vaporizer, and regulation
MINERALIZED WATER SYSTEM				
Supply Source	-	-	-	Portable Demineralized Trailers
Demineralized Water Transfer Pumps	Y	4	100%	1 x 100% per unit with common spare
Dominoralized Water Storage Tank	Y	1	100%	Field erected tank. Sizing based on evaporative cooler makeup and NOx water injection (while firing on fuel oil) for all three new units
Demineralized Water Storage Tank E PROTECTION	T	1	100%	(while tiring on rule) on for all three new units
Design Basis	Y	-	-	NFPA 850 recommended practice.
Insurer/special requirements	Ŷ	-	-	FM Global
CTG Fire Protection	Ŷ	-	-	CO2 and alarm
Electrical Equipment Rooms / PCMs	Y	-	-	CO2 and alarm
				Electric motor and Diesel driven fire pump taking suction from the Service/Fire Water
Pump supply source(s)	Y	2	100%	Storage Tank. Jockey pump to maintain header pressure and for small leaks.
Storage	Y	1	100%	Combined Service/Fire Water Storage Tank fed from makeup water source
Fire loop	Y	-	-	New fire loop to encompass units
Sprinklers	Y	_	_	Provided for occupied buildings per NFPA 13 including admin/office areas, laboratories, restrooms and warehouse space.
Foam System	N	-	-	
Smoke/heat detectors	Y	-	-	Where necessary or recommended by NFPA
Fire walls	Y	-	-	2-hr fire walls where required by NFPA
EL OIL				
				Field Erected tank sized for 72 hours of GT operation at full load.
Storage Tank	Y	2	50%	Located within secondary containment structure
				1 x 100% for each combustion turbine unit with 1 x 100% common spare located near f
Forwarding Pumps	Y	4	100%	oil tank.
			1000	Two (2) truck unloading stations. 1 x 100% unloading pump for each unloading station v
Unloading Pumps	Y Y	3	100% 100%	1 x 100% common spare. Transfer diesel fuel to diesel fire pump day tank
Transfer Pump	1	1	100%	3 x 50% inline electric heaters with recirculation system. Each heater sized for 50% of to
Heating	Y	3	50%	plant fuel oil flow (all three new units).
Duplex Filter	Y	3	100%	One skid for each CTG (provided by CTG supplier)
Meter	Y	3	100%	One for each CTG (provided by CTG supplier)
AC SYSTEMS				
Building electric heaters, exhaust fans and intake louvers, air-				
conditioning	Y	TBD	100%	As required for occupied buildings and electrical rooms
AKE-UP WATER				Neuroull meter for emply
Supply Source	- Y	-	- 100%	New well water for supply
Well Water Pumps Well Water Strainer/Filter Skid	Y	2	100%	
Chemical Feed Pumps	Y	2	100%	Chemicals as required based on source water quality
Chemical Totes	Y	1	100%	
		1		Field erected tank, includes immersion heater(s) and insulation. Standpipe for dedicate
Service/Fire Water Storage	Y	1	100%	fire water volume.
Service Water Pumps	Y	2	100%	
TURAL GAS		1		
Off-site Pipeline	N	-	-	Natural gas available at an interconnection at/near the site boundary.
Compression	N	-	-	Assume sufficient pressure available
Metering & Regulation	Y	2	100%	1 x 100% par CTC. Natural rac fired dow point bestore
Dew Point Heating	Ŷ	3	100%	1 x 100% per CTG. Natural gas fired dew point heaters
				Dual fuel rated (natural gas and ULSD) F-class gas turbine generators provided with inle
				silencers, air filtration systems, low Nox combustors, lube oil systems, hydraulic oil syst
Combustion Gas Turbine (CTG)	Y	3	100%	starting systems, acoutical enclosures with HVAC, controls, fire protection and fuel syst
Fuel Gas Filter Separator	Ŷ	3	100%	1 x 100% per CTG
Fuel Gas Metering Skid	Y	3	100%	1 x 100% per CTG
	Y	3	100%	1 x 100% per CTG
Fuel Gas Pilot Fuel Filter Separator Skid	1	5	10078	

	Y/N	Number	% Capacity (per Unit)	Notes
Fuel Gas Knockout Drum	Y	3	(per Onit) 100%	1 x 100% per CTG
Fuel Gas Filter Separator Skid	Y	2	50%	Supply gas filter separator and drains tank
Fuel Gas Drains Tank	Y	3	100%	1 x 100% per CTG
TABLE WATER		5	100/0	
Supply Source	Y	-	-	City tap, assumes sufficient pressure and flow
Emergency Eye Wash/Safety Showers	Y	4	100%	
Potable Water Instantaneous Heaters	Y	3	100%	
Potable Water Water Heater Tank	Y	1	100%	
NITARY SEWER			100%	
Sanitary Lift Station	Y	2	100%	Each lift station includes 2x100% sewage pumps
Sanitary Sewer Pumps	Y	4	100%	Each int station includes 2x100% sewage pumps
Sanitary Treatment Facility	Y	1	100%	Biotreatment of sanitary waste prior to effluent to new wastewater outfall
ASTEWATER	T	1	100%	Biotreatment of samuary waste prof to embent to new wastewater outrain
ASTEWATER	-	T		
				Drains for areas around equipment that could be contaminated with oil will be directed
Contaminated Wastewater	Y	-	-	through an oil/water separator.
Oil/water Separator (OWS)	Y	1	100%	Each OWS includes 2x100% pumps. Effluent discharged to new outfall
Plant Drains Sump Pumps	Y	5	100%	Sumps and sump pumps as required
CTG Water Wash Skid	Y	1	100%	
Washwater/False Start Drains Tank	Y	3	100%	1 x 100% per CTG
ATHODIC PROTECTION				
Underground Steel Piping	Y	-	-	Cathodic protection system will be galvanic anode type, if required.
Underground Steel Tanks	Y	-	-	Coated with sacrificial anodes, if required.
MOLITION	N	-	-	
DNTROLS		1		
			1	
uipment Control				Control system provided by equipment OFM with level UNAL for each OTC
CTG	Y	-	-	Control system provided by equipment OEM with local HMI for each CTG
Medium Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Motor Control Centers	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Low Voltage Switchgear	Y	-	-	Hardwire Start / Stop / Breaker Status. Soft communications for other I/O.
Plant Control System				Provided system will link all CTG controllers and HMI application servers. Provided with
Plant Control System	Y	-	-	redundant ethernet to application servers.
Plant Historian	Y	-	-	
Offsite Interfaces	Y	-	-	Dispatching, OEM Monitoring, EKPC Monitoring
utomatic Generation Control	Y			
				Balance of Plant controls same as CTG control for Siemens. Separate DCS would be nee
Distributed Control System (DCS)	Y	1	100%	for GE turbines.
bration monitoring		1	10078	for de tarbines.
				Drokes wind to Death, Neveda, Hardwine Dainte between Death, Neveda and Hait
				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
СТБ	Y	-	-	Controllers
				Probes wired to Bently Nevada; Hardwire Points between Bently Nevada and Unit
BOP Motors for Critical or High Speed Applications	Y	-	-	Controllers
lant Simulator	Y	-	-	EKPC to confirm.
igital Bus				
Foundation Fieldbus	N	-	-	
Remote I/O	Y	-	-	
strumentation				
Transmitters	Y	-	-	
HART	Y	-	-	Install tri-loops on valves for feedback.
Performance Testing	Y	-	-	
Meteorological Station	N	-	-	
	Y			1.1000/ nor stack. Detalial to DCC
ontinuous Emissions Monitoring System	Ŷ	3	100%	1x100% per stack. Datalink to DCS
				Redundant relay communications network for protection and control. See Equipment
elaying Data Link	Y	-	-	Control section for equipment / relay interfaces to the control system.
		1		Datalinks for Battery Monitoring, Gas Yard, Gas Compressors/Dewpoint Heaters, Air
ommunication	Y	-	-	Compresors, CEMS
Dispatching	Y	-	-	Automatic Generation Control through RTU communication
Off site monitoring/administrations	Y	-	-	OEM for Turbine Controller Remote Connection
Switchyard	Y	-	-	Communication Interface with Switchyard RTU
Internal plant	Y	-	-	Need further discussions with EKPC IT to determine how this is handled.
External	Y	-	-	Need further discussions with EKPC IT to determine how this is handled.
ERC CIP Requirements	Y	-	-	EKPC to confirm. E.g. CIP low, medium, etc.
		1		Stand Alone Controllers with local HMI's. Plant Control HMI located in New Control Roo
мі	Y	-	-	Admin DCS Room and Switchgear building.
ECTRICAL				
enerator Step-Up Transformers:				
Gas Turbine	Y	3	100%	1 x 100% for each CTG
uxiliary/Reserve Transformers:				
			1	Each auxiliary transformer sized to source the associated unit and provide backup to an
Gas Turbine	Y	3	100%	adjacent unit
enerator Buses:	I	د ا	100%	aujavent anne
		-	40000	Included Direct Dury 4 or 4000/ for each CTC
Gas Turbine	Y	3	100%	Isolated Phase Bus: 1 x 100% for each CTG
enerator Circuit Breakers:		-		
Gas Turbine	Y	3	100%	Generator Circuit Breaker in Isolated Phase Bus for Synchronization
ackstart Generator(s) and Capability	N	-	-	
ectrical Equipment Enclosures:	Y	-	-	Medium voltage electrical building
witchgear:	1			
		1	1	Configured in a Main-Tie-Main with source transformers and buses rated to power the
4160V Switchgear	Y	-	-	entire lineup during the loss of a single source
+100 V Switchgean	I	+		
		1		Configured in a Main-Tie-Main with source transformers and buses rated to power the
480V Switchgear	Y		-	entire lineup during the loss of a single source
			1	
lotor Control Centers: 480 V MCCs	Y	-	-	Rated for the operating load
480 V MCCs	Y	-	-	Rated for the operating load
Aotor Control Centers: 480 V MCCs mergency Power:	Y	-	-	Rated for the operating load A single Balance of Plant UPS system will be provided for the BOP loads. The CTG OEM v

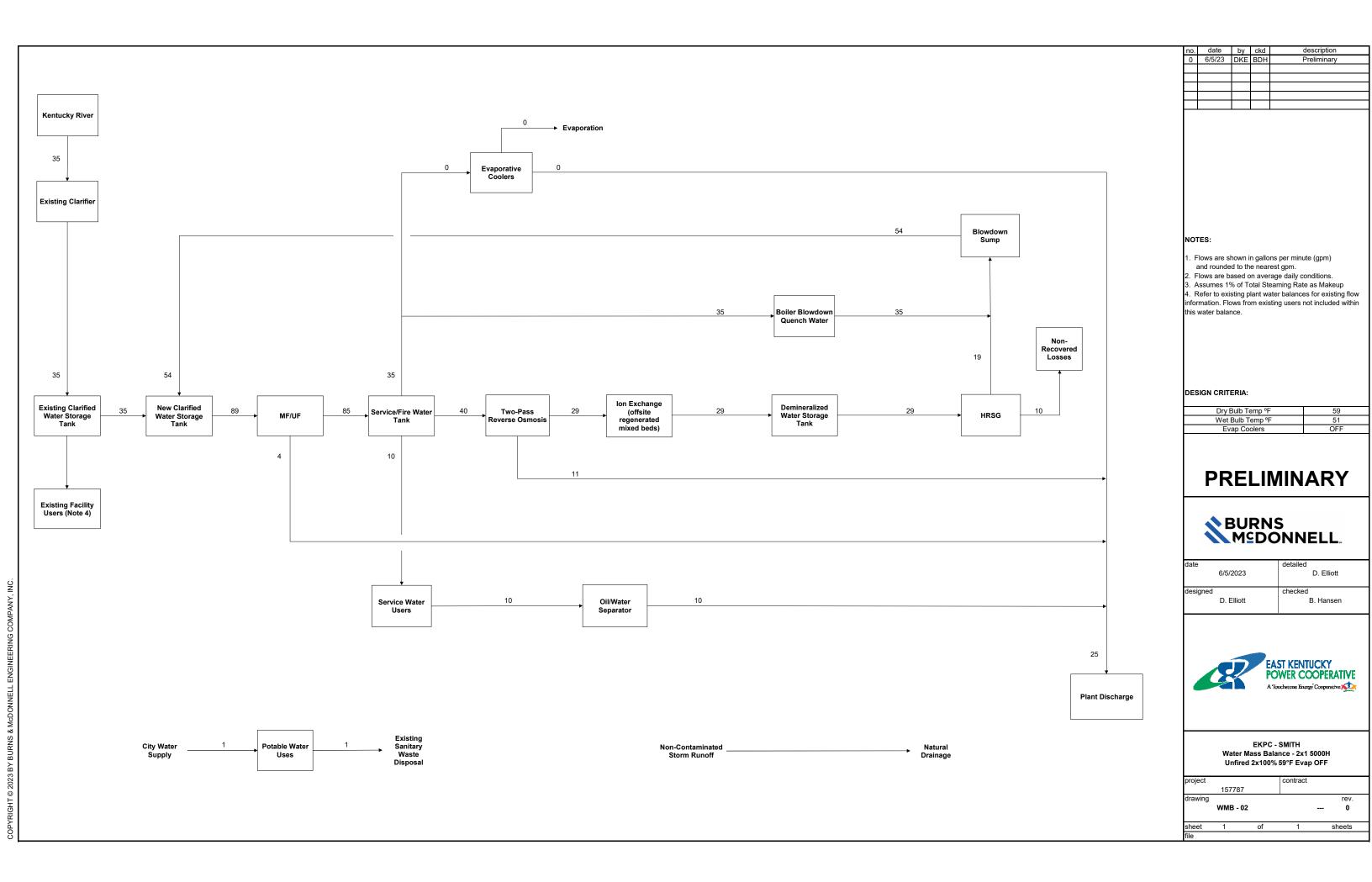
	Y/N	Number	% Capacity (per Unit)	Notes
				A single Balance of Plant DC system will be provided for the BOP loads. The CTG OEM will
DC System	Y	-	-	provide the essential system for their equipment and safe shutdown.
andby Diesel Generator	Y		_	Standby diesel generator rated for OEM and BOP Essential operating loads as well as her
andby Diesel Generator and Alone Control Systems	Υ	-	-	trace to maintaining a safe shutdown condition.
Fire Protection/Detection	Y	-	-	See fire protection section in Mechanical for details
Plant HVAC	Y	-	-	See HVAC section in Mechanical for details
Building/Site Security	Y	-	-	
Plant Communications	Y	-	-	
n-Line Battery Monitoring:	Y	-	-	
ighting		1		
Normal	Y	-	-	LED-lighting; lighting required for new road and plant buildings.
Emergency Egress	Y	-	-	Local battery pack fixtures will be provided for emergency egress.
irounding	Y	-	-	New grounding grid
ightning Protection	Y	-	-	A UL Master Label will be provided for the new facility. Heat tracing designed to maintain 40F for fluids subject to freezing based on size and
reeze Protection	Y		-	service
lectrical Studies:				
				Identify equipment and bus loading, motor terminal voltages and available fault currents
Load Flow, voltage drop, short circuit	Y	-	-	each voltage level
Protective coordination/relay settings	Y	-	-	
Arc Flash	Y	-	-	
Cabling	Y	-	-	Cable tray and field routed conduit above grade, duct bank below grade
ransmission / Interconnection:	N	-	-	Per EKPC
IVIL/STRUCTURAL				
xisting Facilities	N	-	-	Greenfield site. Not applicable
avout Considerations	Y			Sufficient room for future expansion considered. Tie-ins to new gas pipeline and transmission.
ayout Considerations	Y Y	-	-	transmission. Excess spoils will be disposed of on-site, used for fill if possible. No hazardous materials
Disposal of Spoils	-	-	-	accounted for in project estimate.
		+		No geotechnical information known at this time. Geotech will need to be completed to
oils Conditions / Stability	-	-	-	confirm. No special considerations included at this time.
ioil Improvement	N	-	-	No soil improvement is assumed
Subsurface Rock	N	-	-	Assume no rock excavation required.
Subsurface water	N	-	-	No dewatering included.
Cut/Fill	-	-	-	Use existing site materials to grade the site and avoid off-site borrow.
Disposal of debris	-	-	-	Disposed of on-site.
ermanent Stormwater	-	-	-	New stormwater to be collected in ditches and routed to new permitted outfall
				Erosion control will be in accordance with state and local guidelines and regulations and
				include best management practices such as silt fence, rock check dams, slope protection
Construction Stormwater				construction exits, and stormwater pond(s) for construction and permanent. A SWPPP v be prepared.
Roads	- Y	-	-	All new roads for site
loaus	1	-	-	Main access roads shall be paved. Maintenance roads and areas will be covered with
Surfacing	-	-	-	crushed rock. Other areas top soil and seeded.
				Soil bearing capacity not available. To be determined by geotechnical investigation.
				Foundation types assumed as noted below based on an allowable bearing capacity of
Soil Bearing Capacity	-	-	-	approximately 2,500 psf.
				Assume CTG's will be pile-supported. All other equipment/structures will be supported
Foundation type				shallow foundations (mats or footings). A geotechnical investigation will be needed to
	-	-	-	confirm these assumptions.
Transformer Containment	-	-	-	Containment for oil-filled transformer will be provided with an open pit design.
Enclosures			1000	
CTG Enclosures	Y	3	100%	Enclosure housing each CTG
Water Treatment Building Electrical (see electrical section)	Y Y	1	100%	Building housing water treament equipment and fire water pumps
Warehouse/Admin Facilities	Y	1	100%	
Maintenance cranes	T N	-	-	
Guardshack	Y	-		New guard shack
Site Security		-	-	Included in Owner's costs
andscaping	-	-	-	Minimal landscaping included. Disturbed areas will be seeded for erosion control.
ence	Y			New fence around perimeter of new plant facilities
CONSTRUCTION				
Jtilities				
Power	Y	-	-	Construction power from aux. generators
Communication	Y	-	-	Cellular
Construction Water	Y	-	-	Tie into new well
Potable Water	Y	-	-	Trucked until City potable tie-in connection is commissioned
Sanitary	Y	-	-	Portable facilities provided by construction contractors New permanent parking adjacent to Admin/Warehouse building and Water Treament
Parking	Y	_	_	building. Temporary construction parking to be identified.
arking Gate Entry	T	-	-	ounding. Temporary construction parking to be identified.
Main	Y	-	-	New guard shack
Personnel/Craft	Y	-	-	New main gate/consturction entrance
Delivery	Y	-	-	New slide gate for construction
Construction Field Office / Trailers				
Owner	Y	-	-	Trailers in Owners Costs.
Engineer	Y	-	-	Trailers in Owners Costs.
Vendors	Y	-	-	Trailers in Owners Costs.
Contractors	Y	-	-	Trailers in Owners Costs.
Site Services	Y	-	-	Trailers in Owners Costs.
aydown area	Y	-	-	On site areas to be identified
Varehouses DWNER COSTS / MISC.	Y	-	-	Contractor will provide necessary storage space during construction.

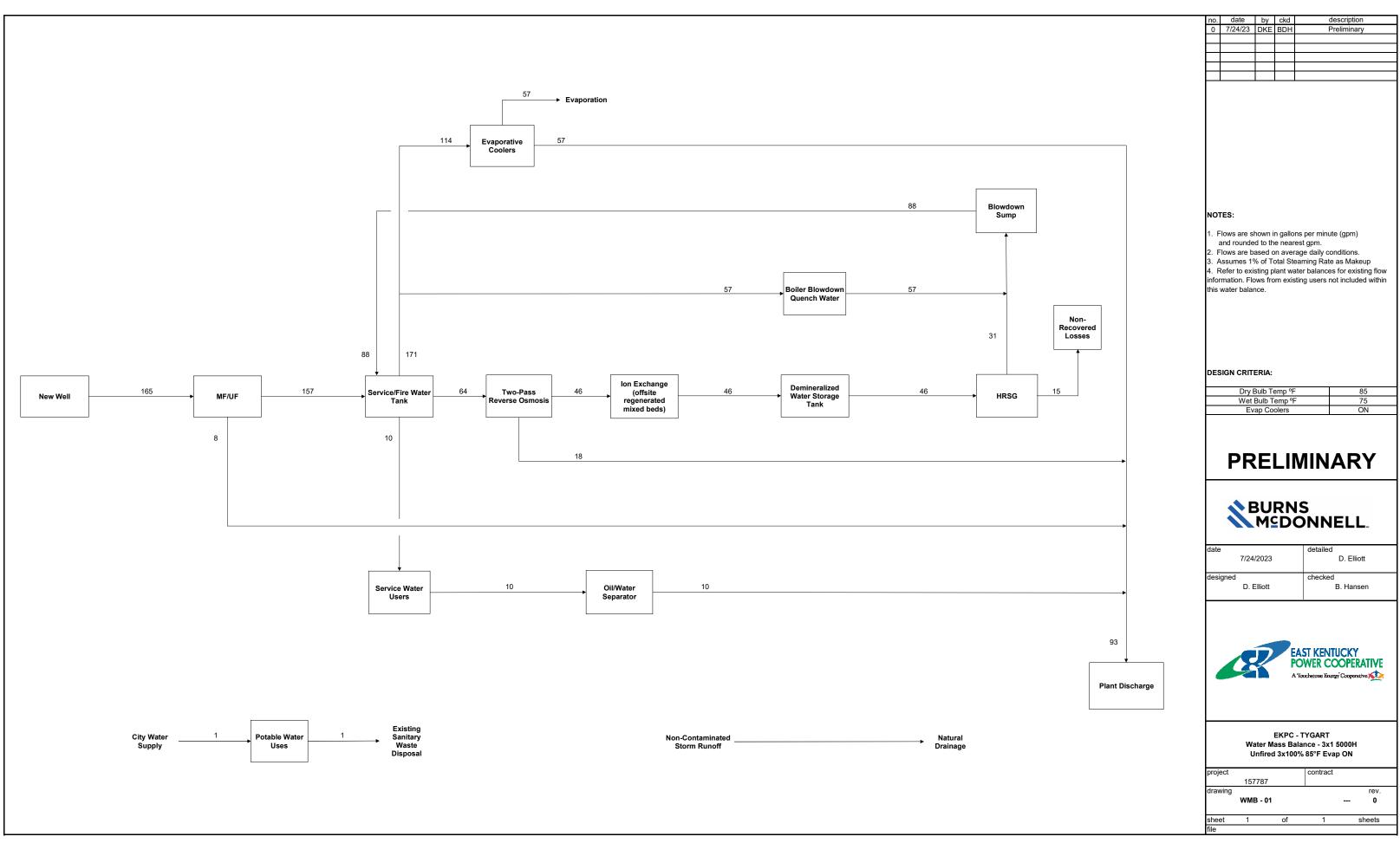
	Y/N	Number	% Capacity (per Unit)	Notes
See Permit Matrix	Y	-	-	EKPC w/ BMcD Support.
Owner's Costs				
Project Development	Y	-	-	Allowance to be included
Owner's Operations Personnel	Y	-	-	Allowance to be included
Owner's Project Management	Y	-	-	Allowance to be included
Owner's Engineer	N	-	-	
Owner's Legal Counsel	Y	-	-	Allowance to be included
Political Concessions / Area Development Fees	Y	-	-	Allowance to be included
Permitting & License Fees	Y	-	-	Allowance to be included
Land	Y	-	-	Allowance to be included
Water Rights Costs	Y	-	-	Allowance to be included
Water Infrastructure and Supply to Site	Y	-	-	New well water for supply
Natural Gas Infrastructure and Supply to Site	N	-	-	Existing pipeline adjacent to site
Labor Camp	N	-	-	
Permanent Plant Operating Spare Parts	Y	-	-	Allowance to be included
Maintenance Tools & Equipment	Y	-	-	Allowance to be included
Permanent Plant Equipment & Furnishings	Y	-	-	Allowance to be included
Sales Tax	Y	-	-	Sales tax is excluded, other than for non-permanent consumables and supplies
Escalation	Y	-	-	Allowance to be included
Owner's Contingency	Y	-	-	Allowance to be included
Interest During Construction	N	-	-	Excluded
Temporary Utilities	Y	-	-	Included in EPC costs
Startup Testing Fuels and Consumables	Y	-	-	Allowance to be included
Operator training	Y	-	-	Allowance to be included
Site Security	Y	-	-	Allowance to be included
EXCLUSIONS				
Taxes	-	-	-	Sales, use, gross receipts, property, and other types.
Insurance	-	-	-	All insurance other than General Liability being carried as a project cost
Sound abatement above normal supply	-	-	-	
Aesthetic landscaping other than erosion control	-	-	-	
High escalation assocated with extreme market conditions	-	-	-	
Financing fees	-	-	-	
Interest during construction	-	-	-	

APPENDIX C – WATER MASS BALANCES

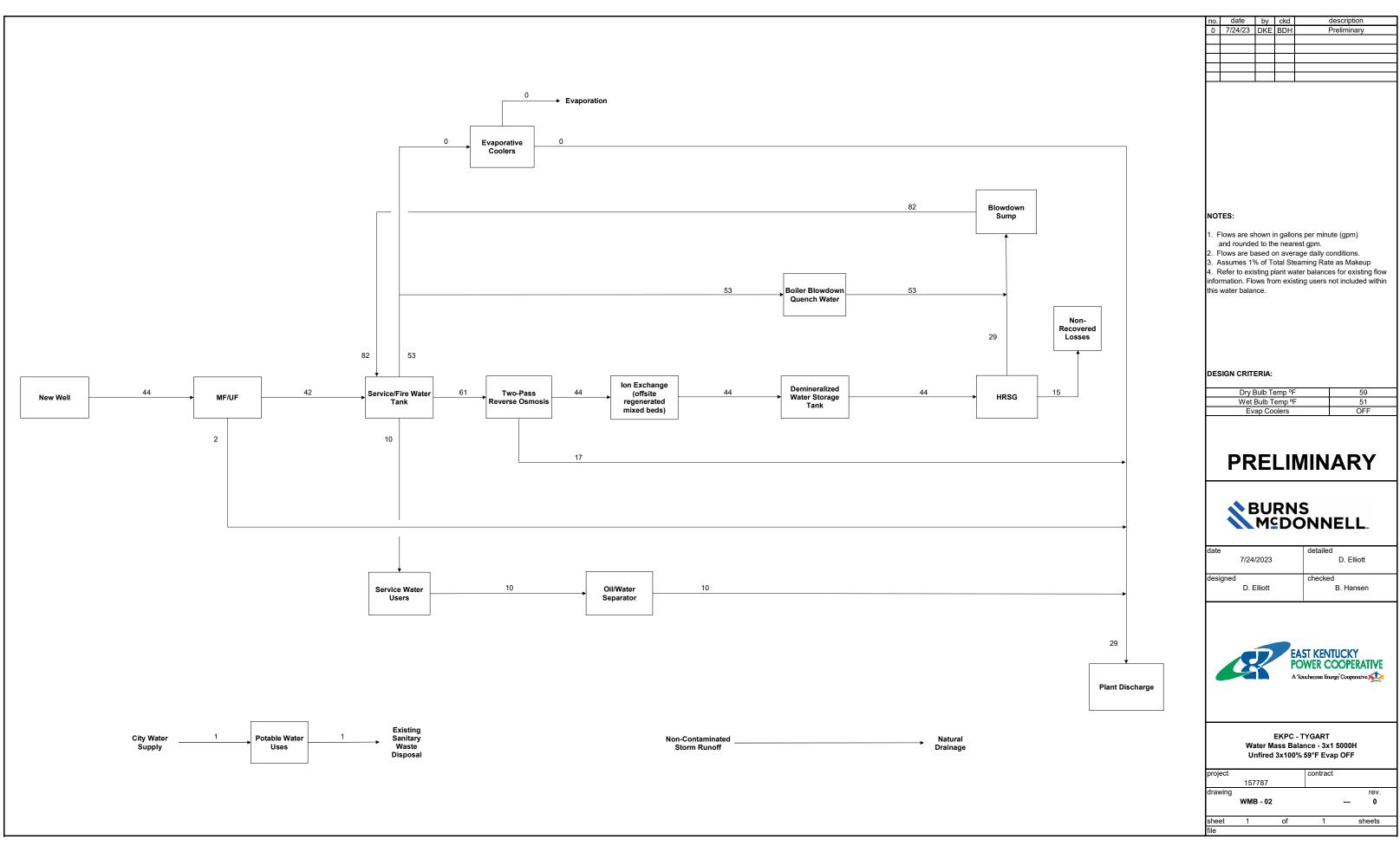


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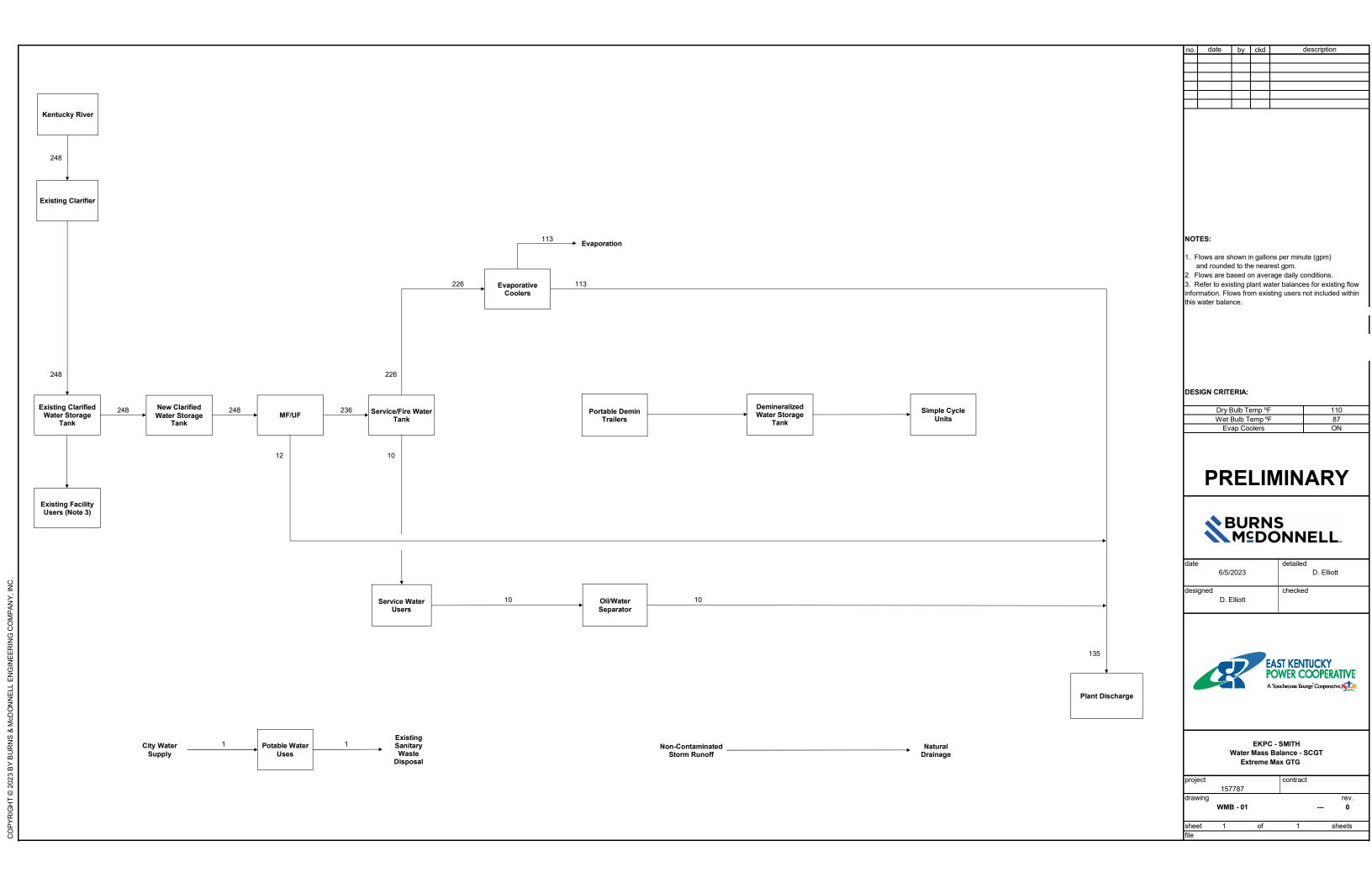


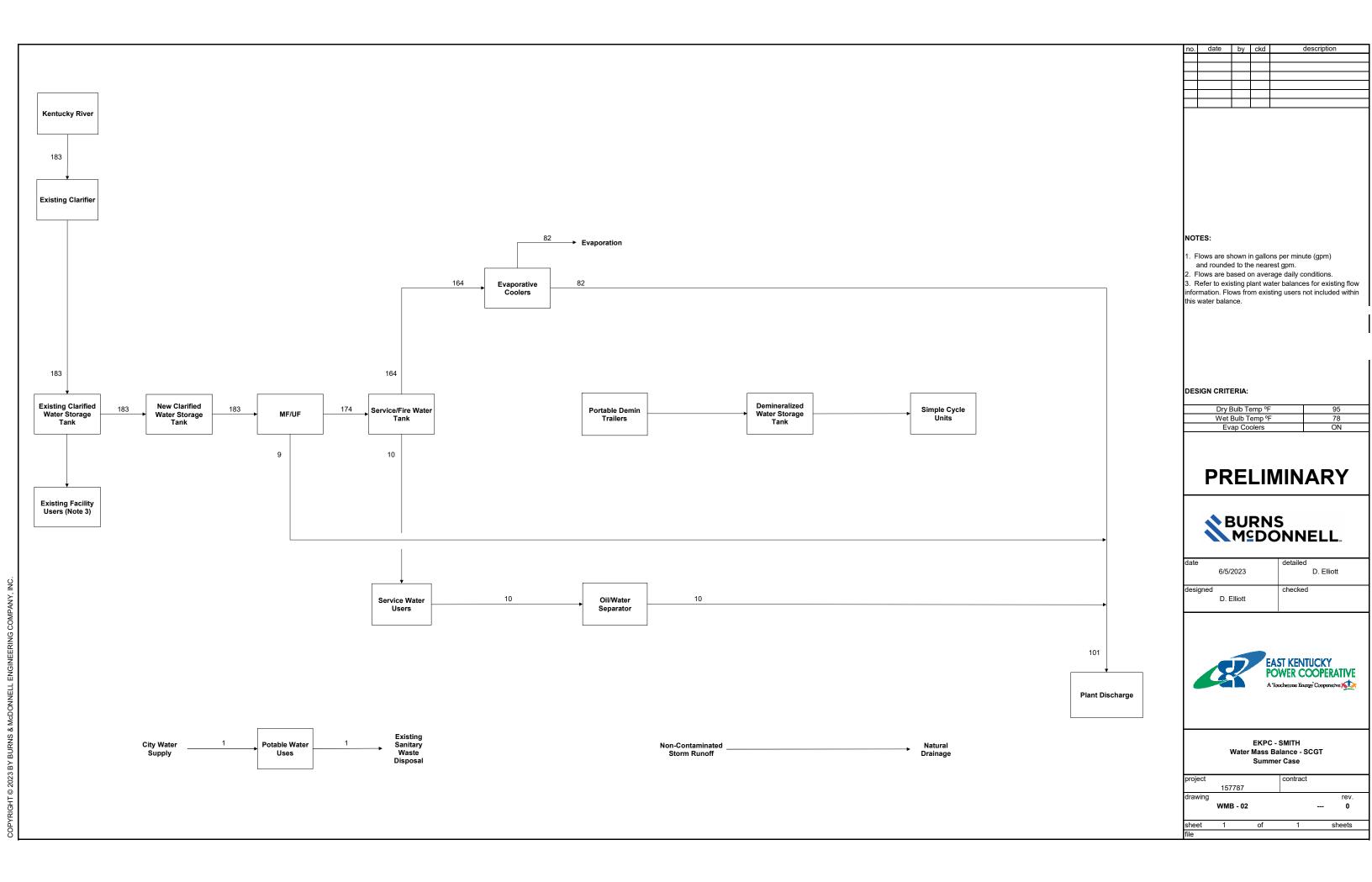


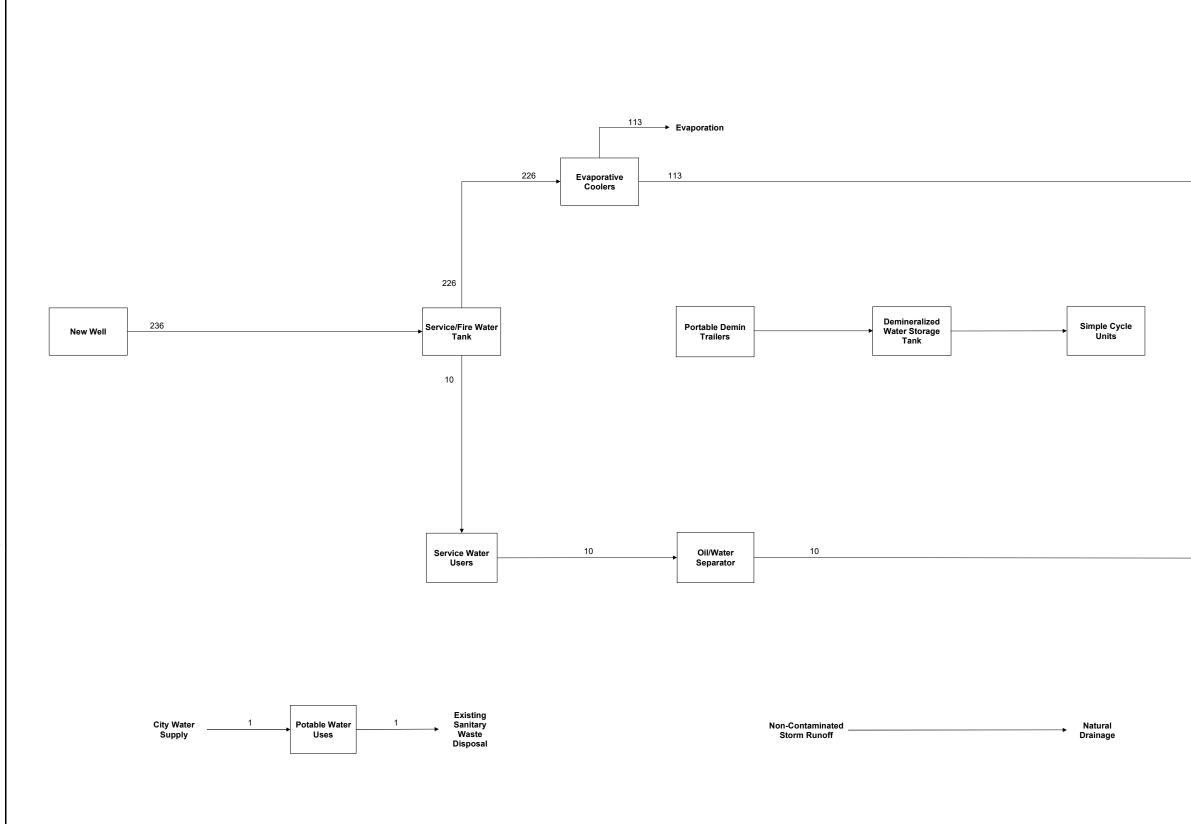
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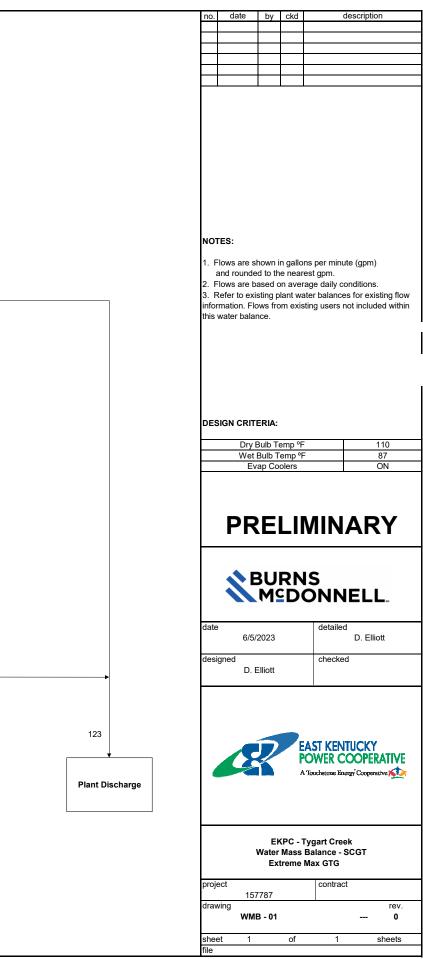


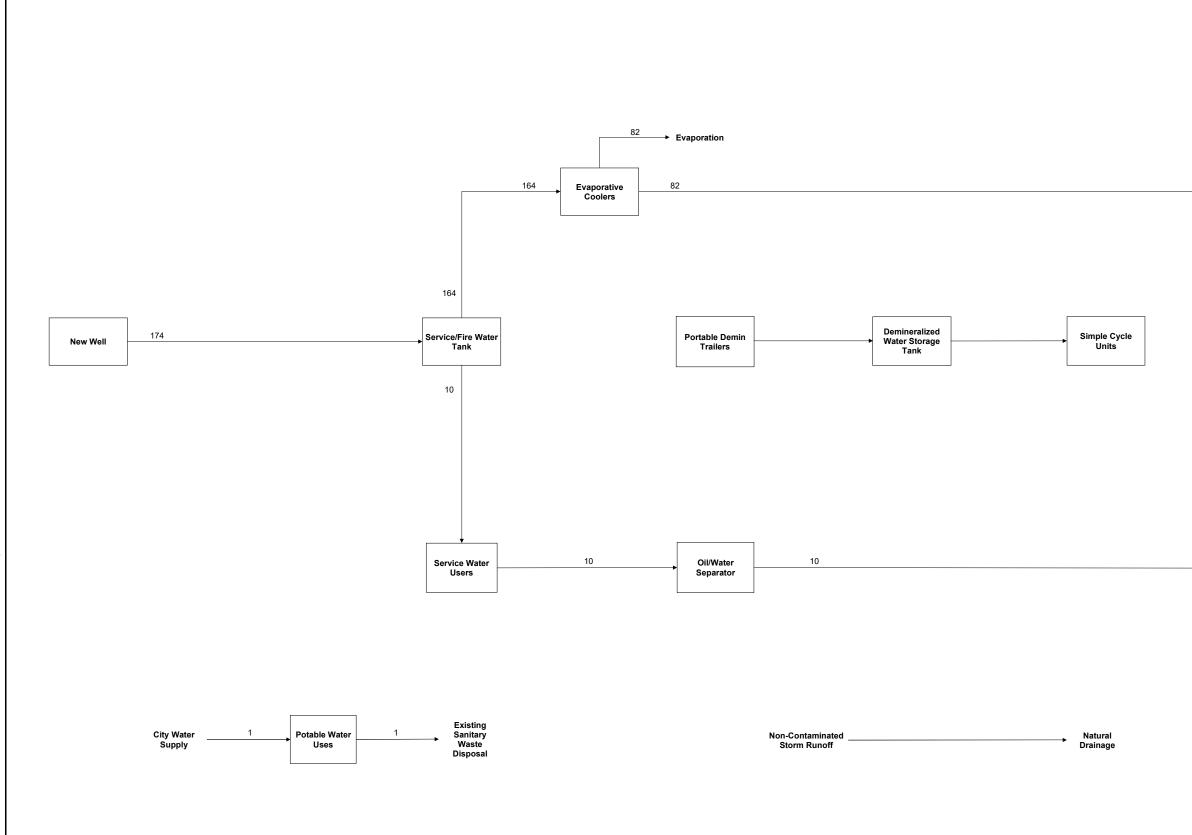
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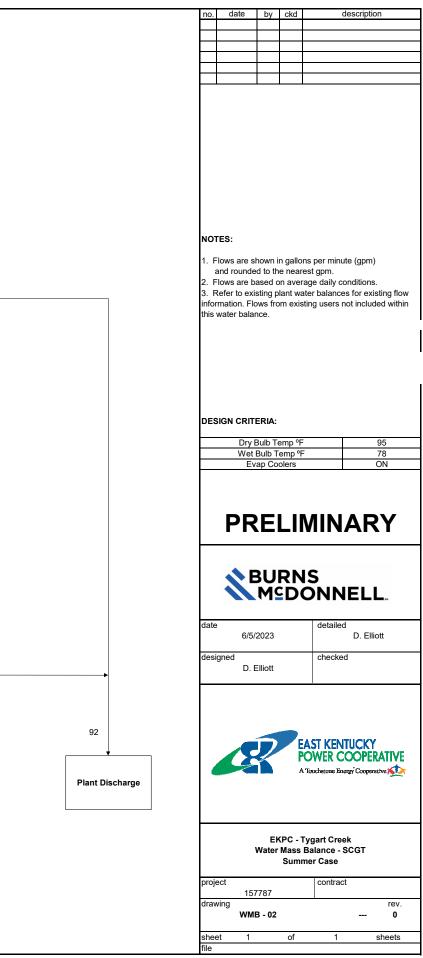












APPENDIX D – EQUIPMENT LISTS

- · · · · · · · · · · · · · · · · · · ·	Supply		Indoor /	#
Equipment Name/Description Reciprocating Internal Combustion Engine (RICE)	Contract	Contract	Outdoor	Qty
Charge Air Filter			-	
				12
	5.1150	5.8320	Outdoor	
-				-
Compact Gas Ramp	5.1150	5.8320	Indoor	6
				C
Dosing Unit	5.1150	5.8320	Indoor	6
				6
Engine Genset	5.1150	5.1150	Indoor	0
Engine Auxilary Area Platforms	5.1150	5.8320	Indoor	6
				6
Engine Auxiliary Module (EAM)	5.1150	5.8320	Indoor	
Engine Platforms	5.1150	5.8320	Indoor	6
	5 4450	F 0220	0.1.1	6
Exhaust Gas (Nox) Analyzer	5.1150	5.8320	Outdoor	
Evenuet Cas Broka	F 11F0	F 9220	Outdoor	6
Exhaust Gas Probe	5.1150	5.8320	Outdoor	
Exhaust Gas Modulo (EGM)	5.1150	5.8320	Indoor	6
Exhaust Gas Module (EGM) Exhaust Gas Module Support Steel	5.1150	5.8320	Indoor	6
Exhaust Gas Wooddle Support Steel	5.1150	5.8320	Indoor	6
	5.1150	5.0520	maoor	0
Exhaust Gas Resonator	5.1150	5.8320	Outdoor	6
	0.1100	0.0020	outdoo.	
Exhaust Gas Silencer	5.1150	5.8320	Outdoor	6
Expansion Vessels	5.1150	5.8320	Indoor	6
Fuel Gas Analyzer Unit	5.1150	5.8320	Indoor	1
Generator Duct	5.1150	5.8320	Indoor	6
Lube Oil Cooler	5.1150	5.8320	Indoor	6
				2
Lube Oil Transfer Pumps	5.1150	5.8320	Indoor	2
				6
Mixing Duct	5.1150	5.8320	Indoor	0
Mobile Lube Oil Pump	5.1150	5.8320	Indoor	1
				6
Modular Pipe Rack	5.1150	5.8320	Indoor	
Nox Sensor System	5.1150	5.8320	Indoor	6
				6
Oil Mist Separator Unit	5.1150	5.8320	Indoor	-
	5 4450	5 0220	0.1.1	60
Radiator Bank	5.1150	5.8320	Outdoor	
Selective Catalytic Reducer (SCR)	F 11F0	F 0220	Outdoor	6
Selective Catalytic Reducer (SCR)	5.1150	5.8320	Outdoor	
Urop Supply Rump Skid	5.1150	5.8320	Indoor	1
Urea Supply Pump Skid 480V Engine 1 MCC	5.1150	5.8410	Indoor	1
480V Engine 2 MCC	5.1150	5.8410	Indoor	1
480V Engine 2 MCC 480V Engine 3 MCC	5.1150	5.8410	Indoor	1
480V Engine 4 MCC	5.1150	5.8410	Indoor	1
480V Engine 5 MCC	5.1150	5.8410	Indoor	1
480V Engine 6 MCC	5.1150	5.8410	Indoor	1
480V Engine 7 MCC	5.1150	5.8410	Indoor	1
480V Engine 8 MCC	5.1150	5.8410	Indoor	1
480V Engine 9 MCC	5.1150	5.8410	Indoor	1
480V Engine 10 MCC	5.1150	5.8410	Indoor	1
480V Engine 11 MCC	5.1150	5.8410	Indoor	1
480V Engine 12 MCC	5.1150	5.8410	Indoor	1
BOP 125VDC Battery & UPS	5.1150	5.8410	Indoor	1
ire Water Pumps				
Electric Fire Water Pump	5.2150	5.8320	Indoor	1
Diesel Fire Water Pump	5.2150	5.8320	Indoor	1

157785 - Liberty RICE Equipment List

	Supply	Install	Indoor /	#
Equipment Name/Description	Contract	Contract	Outdoor	Qty
Jockey Pump	5.2150	5.8320	Indoor	1
Miscellaneous Pumps		-		
Cooling Water Transfer Pump	5.2190	5.8320	Indoor	1
Waste Water Sump Pump	5.2190	5.8320	Indoor	1
	5.2190	5.6520	IIIuooi	1
Service Water Transfer Pumps	5.2190	5.8320	Indoor	2
Fuel Oil Unloading Pumps	5.2190	5.8320	Outdoor	3
Fuel Oil Forwarding Pumps	5.2190	5.8320	Outdoor	3
Control Valves				-
Gas Pressure Regulating Skid	5.2530	5.8320	Outdoor	2
Compressed Air Equipment			•	
				2
Instrument Air Compressors	5.2710	5.8320	Indoor	2
				2
Instrument Air Dryer	5.2710	5.8320	Indoor	2
Starting Air Compressors		-		
				2
Starting Air Compressors	5.2711	5.8320	Indoor	
Fuel Gas Conditioning				
				1
Gas Filter/Coalescer Skid	5.2762	5.8320	Outdoor	
Fuel Gas Heating Fuel Gas Heater Skid	F 2762	F 0220	Outsis	1
Fuel Gas Heater Skid	5.2763	5.8320	Outdoor	1
Oil/Water Separator	5.2763	5.8320	Outdoor	1
Oil/Water Separator	5.2940	E 0220	Outdoor	1
Oil/Water Separator Pumps	5.2940	5.8220 5.8220	Outdoor	2
Shop Fabricated Metallic Tanks	5.2940	J.8220	Outdool	2
New Oil Tank	5.2980	5.8320	Indoor	1
	0.2000	0.0020		
Service/Used Oil Tank	5.2980	5.8320	Indoor	1
· · · ·				
Waste Water Tank	5.2980	5.8320	Indoor	1
				4
Maintenance Water Tank	5.2980	5.8320	Indoor	1
				1
Dry Air Receiver	5.2980	5.8320	Indoor	1
				1
Wet Air Receiver	5.2980	5.8320	Indoor	1
				2
Starting Air Receiver	5.2980	5.8320	Indoor	_
Shop-Fabricated FRP Tanks		-	1	
	5 0000			1
Urea Storage Tank	5.2982	5.8320	Indoor	
Sanitary Treament System Sanitary Treament System	5.3430	5.8320	Indoor	1
Pre-Engineered Metal Building	5.5450	5.6520	IIIuooi	1
Engine Hall	5.4310	5.8320	Outdoor	1
Electrical Equipment Enclosures	5.4310	5.8320	Outdoor	1
Warehouse	5.4310	5.8320	Outdoor	1
Bride Crane	5			-
6-ton Bridge Crane	5.4312	5.8320	Indoor	1
1-ton Monorail Crane	5.4312	5.8320	Indoor	1
Vent Fans	•			
Generator Side Fans	5.4440	5.8320	Indoor	-
Auxiliary Side Fans	5.4440	5.8320	Indoor	-
Gravity Ridge Vent				
Engine Hall Ridge Vent	5.4441	5.8320	Indoor	-
Precast Concrete Firewalls				
Concrete Firewalls around GSU Transformers	5.4515	5.8320	Outdoor	-
Structural Steel				
Cable Bus Support Steel	5.4520	5.8320	Both	-

157785 - Liberty RICE Equipment List

	Supply	Install	Indoor /	щ
Equipment Name /Description	Supply Contract	Contract		#
Equipment Name/Description Charge Air Filter & Mix Duct Support Structures and Platforming	5.4520	5.8320	Outdoor Outdoor	Qty -
SCR and Resonator Support Structures and Platforming	5.4520	5.8320	Outdoor	-
Silencer & Ductwork Support Structure and Platforming	5.4520	5.8320	Outdoor	_
Radiator Support Structures and Platforming	5.4520	5.8320	Outdoor	-
Tank Enclosure Platforming Structures	5.4520	5.8320	Indoor	-
Pipe Rack Structures	5.4520	5.8320	Both	-
High Voltage Breaker Support Structures	5.4520	5.8320	Outdoor	-
Generating Step-Up Transformer Platforming Structures	5.4520	5.8320	Outdoor	-
SCR exhaust ducts	5.4520	5.8320	Outdoor	7
Header exhaust ducts	5.4520	5.8320	Outdoor	2
Rupture disk cages (Weather Covers)	5.4520	5.8320	Outdoor	20
Misc Pipe and Cable Tray Supplemental Steel Supports	5.4520	5.8320	Both	-
Ductwork and Breeching	1	1	1	
Charge Air Ducts	5.4540	5.8320	Indoor	24
Ductwork Expansion Joints	1	1	1	1
				24
				27
Metal Bellows	5.4550	5.8320	Indoor	
Generator Step-up Transformers				
Generator Step-Up Transformer 1	5.5110	5.5110	Outdoor	1
Generator Step-Up Transformer 2	5.5110	5.5110	Outdoor	1
Emergency Generator				
				1
Auxiliary Generator	5.5240	5.8410	Outdoor	1
Medium Voltage & Low Voltage Switchgear & Relay Panels				
13.8kV Generator Switchgear 1	5.5310	5.8410	Indoor	1
13.8kV Generator Switchgear 2	5.5310	5.8410	Indoor	1
13.8kV Generator Switchgear 3	5.5310	5.8410	Indoor	1
13.8kV Generator Switchgear 4	5.5310	5.8410	Indoor	1
Station Auxiliary Transformer 1	5.5310	5.8410	Outdoor	1
Station Auxiliary Transformer 2	5.5310	5.8410	Outdoor	1
Station Auxiliary Transformer 3	5.5310	5.8410	Outdoor	1
Station Auxiliary Transformer 4	5.5310	5.8410	Outdoor	1
480V Switchgear 1	5.5310	5.8410	Indoor	1
480V Switchgear 2	5.5310	5.8410	Indoor	1
480V Switchgear 3	5.5310	5.8410	Indoor	1
480V Switchgear 4	5.5310	5.8410	Indoor	1
480V Motor Control Centers	_	•		•
480V BOP MCC 1	5.5330	5.8410	Indoor	1
480V BOP MCC 2	5.5330	5.8410	Indoor	1
125VDC Batteries, Charger & UPS				
125VDC Batteries, Disconnects, Switchboard, Bypass Transformer &				
Chargers	5.5430	5.8410	Indoor	-
UPS, Inverter & Bypass Switch	5.5430	5.8410	Indoor	-
Instruments				
			Indoor /	
Instruments	5.6210	5.8320	Outdoor	-
Fuel Gas Chromatograph				1
Fuel Gas Chromatograph System	5.6211	5.8320	Outdoor	1
Substation Package				-
Surge Arrestors	5.7200	5.8411	Outdoor	-
Capacitor Voltage Transformers (CCVT)	5.7200	5.8411	Outdoor	-
Disconnect Switches	5.7200	5.8411	Outdoor	-
Insulators (Substation)	5.7200	5.8411	Outdoor	-
Conductor (HV Cable in Substation)	5.7200	5.8411	Outdoor	_
Terminals, Connectors & Bus Supports	5.7200	5.8411	Outdoor	_
CCVT Junction Box Assemblies	5.7200	5.8411	Outdoor	-
T-Line Insulators	5.7200	5.8411	Outdoor	
Mechanical Construction (Misc. Pumps, Specials, HVAC)	5.7200	5.0411	Outuoor	-
	1	1	1	1
Sonvice Water Pladder Tank	E 0330	E 0220	Indos	1
Service Water Bladder Tank	5.8320	5.8320	Indoor	

157785 - Liberty RICE Equipment List

	Supply	Install	Indoor /	#
Equipment Name/Description	Contract	Contract	Outdoor	Qty
Potable Water Booster Pump	5.8320	5.8320	Indoor	1
Potable Water Heater	5.8320	5.8320	Indoor	2
Emergency Eye Wash / Safety Shower	5.8320	5.8320	Indoor	4
Lift Station	5.8220	5.8220	Outdoor	1
Lube Oil Cartridge Filter	5.8320	5.8320	Indoor	1
Lube Oil Tank Heater	5.8320	5.8320	Indoor	1
Space Conditioning				
Admin Room(s) Air Handling Units	5.8340	5.8340	Indoor	5
Admin Room(s) Air Terminal Units	5.8340	5.8340	Indoor	5
Building Intake Louvers	5.8340	5.8340	Indoor	12
Building Exhaust Fans	5.8340	5.8340	Indoor	10
Building Electric Heaters	5.8340	5.8340	Indoor	30
Field Erected Tanks				
Fire Water Tank	5.8570	5.8570	Outdoor	1
Tank Immersion Heater	5.8570	5.8570	Outdoor	2
Fuel Oil Tank	5.8570	5.8570	Outdoor	2

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
AMMONIA TOTE	OWNER	5.8320	INDOOR
AUXILIARY BOILER CHEMICAL TOTE	OWNER	5.8320	INDOOR
NITROGEN BOTTLE RACK	OWNER	5.8320	OUTDOOR
OFF-SITE SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
ON-SITE SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
OXYGEN SCAVENGER TOTE	OWNER	5.8320	INDOOR
RO ANTI-SCALANT TOTE	OWNER	5.8320	INDOOR
RO SODIUM BISULFITE TOTE	OWNER	5.8320	INDOOR
RO SODIUM HYDROXIDE TOTE	OWNER	5.8320	INDOOR
RO SULFURIC ACID TOTE	OWNER	5.8320	INDOOR
UF CEB CITRIC ACID TOTE	OWNER	5.8320	INDOOR
UF CEB SODIUM HYDROXIDE TOTE	OWNER	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
UNIT 1 PHOSPHATE TOTE	OWNER	5.8320	INDOOR
UNIT 2 PHOSPHATE TOTE	OWNER	5.8320	INDOOR
STEAM TURBINE GENERATOR (STG)	5.1110	5.8320	INDOOR
STG HOTBOX	5.1110	5.8320	INDOOR
STG HP/IP TURBINE	5.1110	5.8320	INDOOR
STG LP TURBINE	5.1110	5.8320	INDOOR
STG BEARING LIFT OIL FILTER 1	5.1110	5.1110	INDOOR
STG BEARING LIFT OIL FILTER 2	5.1110	5.1110	INDOOR
STG BEARING LIFT OIL PUMP 1	5.1110	5.1110	INDOOR
STG BEARING LIFT OIL PUMP 2	5.1110	5.1110	INDOOR
STG EMERGENCY LUBE OIL PUMP	5.1110	5.1110	INDOOR
STG LUBE OIL COOLER 1	5.1110	5.8320	INDOOR
STG LUBE OIL COOLER 2	5.1110	5.8320	INDOOR
STG LUBE OIL FILTER 1	5.1110	5.8320	INDOOR
STG LUBE OIL FILTER 2	5.1110	5.8320	INDOOR
STG LUBE OIL MODULE/TANK	5.1110	5.8320	INDOOR
STG LUBE OIL PUMP 1	5.1110	5.8320	INDOOR
STG LUBE OIL PUMP 2	5.1110	5.8320	INDOOR
STG LUBE OIL VAPOR EXHAUST OIL SEPARATOR	5.1110	5.8320	INDOOR
STG LUBE OIL VAPOR EXHAUSTER 1	5.1110	5.8320	INDOOR
STG LUBE OIL VAPOR EXHAUSTER 2	5.1110	5.8320	INDOOR
STG OIL PURIFICATION UNIT STG OIL PURIFICATION UNIT HEATER	5.1110	5.8320	INDOOR
STG OIL PURIFICATION UNIT HEATER STG OIL PURIFICATION UNIT PUMP	5.1110	5.8320	INDOOR
STG OIL PORIFICATION UNIT POMP STG GLAND STEAM CONDENSER	5.1110	5.8320	INDOOR INDOOR
STG GLAND STEAM CONDENSER STG GLAND STEAM EXHAUSTER 1	<u>5.1110</u> 5.1110	5.8320	INDOOR
STG GLAND STEAM EXHAUSTER 1		5.1110 5.1110	INDOOR
STG GLAND STEAM EXHAUSTER 2 STG HYDRAULIC OIL UNIT/TANK	<u>5.1110</u> 5.1110	5.8320	INDOOR
STG HYDRAULIC/CONTROL OIL COOLING CIRCULATION PUMP 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL COOLING CIRCULATION PUMP 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL COOLING FAN 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL COOLING FAN 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL FILTER 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL FILTER 2	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL HEATER	5.1110	5.8320	INDOOR
STG HYDRAULIC/CONTROL OIL PUMP 1	5.1110	5.8320	INDOOR
STG HYDRAULIC/CONTROL OIL PUMP 2	5.1110	5.8320	INDOOR
STG TRANSFORMER SEE	5.1110	5.8410	INDOOR
STG TRANSFORMER SEE PACKAGE	5.1110	5.8410	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
COMMON GT WATER WASH SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - UNIT 1	5.1120	5.8320	INDOOR
GT1 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT1 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT1 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #2 GT1 ELECTRICAL PACKAGE	<u>5.1120</u> 5.1120	5.8320	INDOOR
GTT ELECTRICAL PACKAGE GTT ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410 5.8410	INDOOR INDOOR
GT1 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT1 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8410	INDOOR
GT1 ENCLOSURE	5.1120	5.8320	INDOOR
GT1 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT1 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT1 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT1 GENERATOR	5.1120	5.8320	INDOOR
GT1 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT1 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT1 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT1 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT1 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT1 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT1 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT1 PILOT FLOW DIVIDER GT1 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR INDOOR
GT1 PILOT FUEL GAS FILTER GT1 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120 5.1120	5.8320 5.8320	INDOOR
GT1 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT1 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT1 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT1 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT1 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT1 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT1 WATER INJECTION SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - UNIT 2	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT2 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT2 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT2 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #1 GT2 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120 5.1120	5.8410 5.8410	INDOOR INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #2 GT2 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT2 ENCLOSURE	5.1120	5.8320	INDOOR
GT2 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT2 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT2 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT2 GENERATOR	5.1120	5.8320	INDOOR
GT2 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT2 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT2 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT2 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT2 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT2 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT2 LV PANEL BOARD TRANSFORMER	5.1120	5.8410 5.8320	INDOOR
GT2 MAIN FUEL GAS FILTER GT2 OIL SKID & COOLER	5.1120		INDOOR INDOOR
GT2 PILOT FLOW DIVIDER	5.1120 5.1120	5.8320 5.8320	INDOOR
GT2 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT2 PORGE/INSTROMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT2 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT2 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT2 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT2 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT2 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT2 WATER INJECTION SKID	5.1120	5.8320	INDOOR
HRSG1	5.1215	5.8320	INDOOR
HRSG1 AIG BLOWER A	5.1215	5.8320	INDOOR
HRSG1 AIG BLOWER B	5.1215	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
HRSG1 BLOWDOWN TANK	5.1215	5.8320	INDOOR
HRSG1 CONDENSATE RECIRCULATION PUMP	5.1215	5.8320	INDOOR
HRSG1 COOLING BLOWER A	5.1215	5.8320	INDOOR
HRSG1 COOLING BLOWER B	5.1215	5.8320	INDOOR
HRSG1 EXHAUST STACK	5.1215	5.8320	INDOOR
HRSG1 CEMS SHELTER ANALYZER CABINET	5.1215	5.8320	OUTDOOR
GTG1 CEMS ANALYZER CABINET	5.1215	5.8410	INDOOR
GT1 LP CO2 COMPRESSOR FEED 1	5.1215	5.8320	INDOOR
GT1 LP CO2 COMPRESSOR FEED 2	5.1215	5.8320	INDOOR
HRSG1 MOVS	5.1215	5.8320	INDOOR
HRSG2	5.1215	5.8320	INDOOR
HRSG2 AIG BLOWER A	5.1215	5.8320	INDOOR
HRSG2 AIG BLOWER B	5.1215	5.8320	INDOOR
HRSG2 BLOWDOWN TANK	5.1215	5.8320	INDOOR
HRSG2 CONDENSATE RECIRCULATION PUMP	5.1215	5.8320	INDOOR
HRSG2 COOLING BLOWER A	5.1215	5.8320	INDOOR
HRSG2 COOLING BLOWER B	5.1215	5.8320	INDOOR
HRSG2 EXHAUST STACK	5.1215	5.8320	INDOOR
HRSG2 CEMS SHELTER ANALYZER CABINET	5.1215	5.8320	OUTDOOR
GTG2 CEMS ANALYZER CABINET	5.1215	5.8410	INDOOR
GT2 LP CO2 COMPRESSOR FEED 1	5.1215	5.8320	INDOOR
GT2 LP CO2 COMPRESSOR FEED 2	5.1215	5.8320	INDOOR
HRSG2 MOVS	5.1215	5.8320	INDOOR
BOILER FEEDWATER PUMP 1A	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP 1B	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP LUBE OIL PUMP 1A	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP LUBE OIL PUMP 1B	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP 2A	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP 2B	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP LUBE OIL PUMP 2A	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP LUBE OIL PUMP 2B	5.2110	5.8320	INDOOR
CONDENSATE PUMP A	5.2130	5.8320	INDOOR
CONDENSATE PUMP B	5.2130	5.8320	INDOOR
CONDENSATE PUMP C	5.2130	5.8320	INDOOR
DIESEL FIRE PUMP	5.2150	5.8320	INDOOR
	5.2150	5.8320	INDOOR
JOCKEY FIRE PUMP AND ENCLOSURE FEED	5.2150	5.8320	INDOOR
WASTEWATER SUMP PUMP A	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP B	5.2180	5.8320	OUTDOOR
UNIT 1 HRSG BLOWDOWN SUMP PUMP A	5.2180	5.8320	OUTDOOR
UNIT 1 HRSG BLOWDOWN SUMP PUMP B	5.2180	5.8320	OUTDOOR
UNIT 2 HRSG BLOWDOWN SUMP PUMP A	5.2180	5.8320	OUTDOOR
UNIT 2 HRSG BLOWDOWN SUMP PUMP B	5.2180	5.8320	OUTDOOR
CLARIFIED WATER TRANSFER PUMP A	5.2180	5.8320	INDOOR
CLARIFIED WATER TRANSFER PUMP B	5.2180	5.8320	INDOOR
FUEL OIL FORWARDING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP B	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP B	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP C	5.2190	5.8320	OUTDOOR
	5.2190	5.8320	OUTDOOR
FUEL OIL TRANSFER PUMP A	5.2190	5.8320	OUTDOOR
CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
DEMINERALIZED WATER PUMP A	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP B	5.2190	5.8320	INDOOR
SERVICE WATER PUMP A	5.2190	5.8320	INDOOR
SERVICE WATER PUMP B	5.2190	5.8320	INDOOR
POWERHOUSE SANITARY LIFT STATION	5.2191	5.8220	OUTDOOR
WAREHOUSE/ADMIN SANITARY LIFT STATION	5.2191	5.8220	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
AIR-COOLED HEAT EXCHANGER (ACHE)	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 1	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 10	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 11	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 12	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 13	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 14	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 15	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 16	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 17	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 18	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 19	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 2	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 20	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 21 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 22	<u>5.2215</u> 5.2215	5.8320 5.8320	OUTDOOR OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 22 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 23	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 23	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 24 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 3	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 4	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 5	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 6	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 7	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 8	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 9	5.2215	5.8320	OUTDOOR
AIR-COOLED CONDENSER (ACC)	5.2230	5.8320	OUTDOOR
ACC DUCT DRAIN POT PUMP A	5.2230	5.8320	OUTDOOR
ACC DUCT DRAIN POT PUMP B	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 2 ACC STREET 1 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 3	5.2230	5.8320 5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET I FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRARE 0 ACC STREET 2 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
ACC STREET 2 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 3	5.2230	5.8320 5.8320	OUTDOOR
ACC STREET 3 FAN 4	5.2230		OUTDOOR
ACC STREET 3 FAN 5	5.2230	5.8320	OUTDOOR OUTDOOR
ACC STREET 3 FAN 6 ACC STREET 3 FAN DRIVE BRAKE 1	5.2230	5.8320 5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 1 ACC STREET 3 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 5 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 5 COOLING FAN 2 ACC STREET 5 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 5 COOLING FAN 3 ACC STREET 5 COOLING FAN 4	5.2230	5.8320 5.8320	OUTDOOR OUTDOOR
ACC STREET 5 COOLING FAN 4 ACC STREET 5 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 5 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 4	5.2230	5.8320	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
ACC STREET 6 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
CONDENSATE STORAGE TANK	5.2230	5.8320	INDOOR
DEAERATOR EJECTOR	5.2230	5.8320	INDOOR
ACC CLEANING WATER PUMP SKID	5.2230	5.8320	OUTDOOR
LIQUID RING VACUUM PUMP (LRVP) A	5.2230	5.8320	INDOOR
LRVP PLATE AND FRAME HEAT EXCHANGER A	5.2230	5.8320	INDOOR
LRVP RECIRCULATION PUMP A	5.2230	5.8320	INDOOR
	5.2230	5.8320	INDOOR
LIQUID RING VACUUM PUMP (LRVP) B	5.2230	5.8320	INDOOR
LRVP PLATE AND FRAME HEAT EXCHANGER B	5.2230	5.8320	INDOOR
LRVP RECIRCULATION PUMP B	5.2230	5.8320	INDOOR
LRVP SEPARATOR TANK B	5.2230	5.8320	INDOOR
POTABLE WATER WATER HEATER TANK 2	5.2490	5.8320	INDOOR
POTABLE WATER WATER HEATER TANK 3	5.2490	5.8320	INDOOR
POTABLE WATER WATER HEATER TANK 4 POTABLE WATER WATER HEATER TANK 5	<u>5.2490</u> 5.2490	5.8320 5.8320	INDOOR INDOOR
POTABLE WATER WATER HEATER TANK 5	5.2490	5.8320	INDOOR
POTABLE WATER WATER HEATER TANK 0	5.2490	5.8320	OUTDOOR
AIR COMPRESSOR A	5.2710	5.8320	INDOOR
AIR COMPRESSOR B	5.2710	5.8320	INDOOR
AIR COMPRESSOR C	5.2710	5.8320	INDOOR
AIR DRYER A	5.2710	5.8320	INDOOR
AIR DRYER B	5.2710	5.8320	INDOOR
AQUEOUS AMMONIA STORAGE TANK	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA UNLOADING SKID	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA FORWARDING PUMP A	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA FORWARDING PUMP B	5.2750	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER A	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER B	5.2762	5.8320	OUTDOOR
FUEL GAS REGULATING/METERING SKID	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER A	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER B	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER C	5.2762	5.8320	OUTDOOR
FUEL GAS COALESCING FILTER SEPARATOR SKID	5.2762	5.8320	OUTDOOR
DRAINS TANK	5.2762	5.8320	OUTDOOR
FUEL GAS COALESCING FILTER SEPARATOR	5.2762	5.8320	OUTDOOR
FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
AUXILIARY BOILER	5.2910	5.8320	INDOOR
AUXILIARY BOILER BLOWDOWN TANK	5.2910	5.8320	INDOOR
AUXILIARY BOILER DEAERATOR	5.2910	5.8320	INDOOR
AUXILIARY BOILER FD FAN	5.2910	5.8320	INDOOR
AUXILIARY BOILER FEEDWATER PUMP A	5.2910	5.8320	INDOOR
AUXILIARY BOILER FEEDWATER PUMP B	5.2910	5.8320	INDOOR
AUXILIARY STEAM ELECTRIC SUPERHEATER	5.2910	5.8320	INDOOR
WASH WATER DRAINS TANK	5.2940	5.8320	OUTDOOR
OIL WATER SEPARATOR	5.2940	5.8220	OUTDOOR
OIL WATER SEPARATOR PUMP A	5.2940	5.8220	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
OIL WATER SEPARATOR PUMP B	5.2940	5.8220	OUTDOOR
SANITARY LIFT STATION PUMP A	5.2940	5.8220	OUTDOOR
SANITARY LIFT STATION PUMP B	5.2940	5.8220	OUTDOOR
DRY AIR RECEIVER	5.2980	5.8320	INDOOR
WET AIR RECEIVER	5.2980	5.8320	INDOOR
PULSE AIR RECEIVERS	5.2980	5.8320	INDOOR
CLOSED COOLING WATER HEAD TANK	5.2980	5.8320	OUTDOOR
STG FLASH TANK	5.2980	5.8320	INDOOR
	5.2980	5.8320	INDOOR
OFF-SITE SODIUM HYPOCHLORITE FEED SKID OFF-SITE SODIUM HYPOCHLORITE FEED PUMP A	5.3120 5.3120	5.8320 5.8320	INDOOR INDOOR
OFF-SITE SODIUM HYPOCHLORITE FEED PUMP A	5.3120	5.8320	INDOOR
HP PHOSPHATE TRANSFER PUMP	5.3120	5.8320	INDOOR
HP/IP PHOSPHATE TRANSFER PUMP	5.3120	5.8320	INDOOR
IP PHOSPHATE TRANSFER PUMP	5.3120	5.8320	INDOOR
HP PHOSPHATE TRANSFER PUMP	5.3120	5.8320	INDOOR
HP/IP PHOSPHATE TRANSFER PUMP	5.3120	5.8320	INDOOR
IP PHOSPHATE TRANSFER PUMP	5.3120	5.8320	INDOOR
AMMONIA CHEMICAL SKID	5.3210	5.8320	INDOOR
AMMONIA FEED PUMP A	5.3210	5.8320	INDOOR
AMMONIA FEED PUMP B	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED SKID	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED PUMP A	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED PUMP B	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEMICAL SKID	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEM FEED PUMP A	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEM FEED PUMP B	5.3210	5.8320	INDOOR
SODIUM HYPOCHLORITE SHELTER HOUSE	5.3210	5.8320	INDOOR
SODIUM HYPOCHLORITE TRANSFER PUMP A	5.3210	5.8320	INDOOR
SODIUM HYPOCHLORITE TRANSFER PUMP B	5.3210	5.8320	INDOOR
HRSG 1 HP/IP PHOSPHATE SKID	5.3210	5.8320	INDOOR
HRSG 2 HP/IP PHOSPHATE SKID RO RINSE PUMP A	5.3210 5.3210	5.8320 5.8320	INDOOR INDOOR
RO RINSE PUMP B	5.3210	5.8320	INDOOR
RO SODIUM BISULFITE FEED PUMP A	5.3210	5.8320	INDOOR
RO SODIUM BISULFITE FEED PUMP B	5.3210	5.8320	INDOOR
RO ANTI-SCALANT FEED PUMP A	5.3210	5.8320	INDOOR
RO ANTI-SCALANT FEED PUMP B	5.3210	5.8320	INDOOR
RO SODIUM HYDROXIDE PUMP A	5.3210	5.8320	INDOOR
RO SODIUM HYDROXIDE PUMP B	5.3210	5.8320	INDOOR
RO SODIUM HYDROXIDE PUMP C	5.3210	5.8320	INDOOR
RO ACID FEED PUMP A	5.3210	5.8320	INDOOR
RO ACID FEED PUMP B	5.3210	5.8320	INDOOR
AUTOMATIC BACKWASH STRAINER & OIL/GREASE CARTRIDGE FILTER SKID	5.3210	5.8320	INDOOR
ABW STRAINER A	5.3210	5.8320	INDOOR
ABW STRAINER B	5.3210	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
OIL/GREASE CARTRIDGE FILTER A	5.3210	5.8320	INDOOR
OIL/GREASE CARTRIDGE FILTER B	5.3210	5.8320	INDOOR
UF FILTER TRAIN A	5.3210	5.8320	INDOOR
UF FILTER TRAIN B	5.3210	5.8320	INDOOR
ULTRAFILTRATION (UF) BACKWASH PUMP SKID	5.3210	5.8320	INDOOR
UF BACKWASH PUMP A	5.3210	5.8320	INDOOR
UF BACKWASH PUMP B	5.3210	5.8320	INDOOR
UF CHEMICAL ENHANCED BACKWASH (CEB) SODIUM HYDROXIDE FEED SKID	5.3210	5.8320	INDOOR
UF CEB SODIUM HYDROXIDE PUMP A	5.3210	5.8320	INDOOR
UF CEB SODIUM HYDROXIDE PUMP B	5.3210	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE FEED SKID	5.3210	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE PUMP A	5.3210	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE PUMP B	5.3210	5.8320	INDOOR
UF CEB CITRIC ACID FEED SKID	5.3210	5.8320	INDOOR
UF CEB CITRIC ACID PUMP A	5.3210	5.8320	INDOOR
UF CEB CITRIC ACID PUMP B	5.3210	5.8320	INDOOR
UF BACKWASH TANK	5.3210	5.8320	INDOOR
CALCITE FILTERS CALCITE FILTER	5.3210 5.3210	5.8320 5.8320	INDOOR INDOOR
MIXED BED VALVE MANIFOLD	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL A	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL B	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL C	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL D	5.3220	5.8320	INDOOR
REVERSE OSMOSIS (RO) TRAIN A	5.3220	5.8320	INDOOR
1ST PASS RO FILTER A	5.3220	5.8320	INDOOR
1ST PASS RO BOOSTER PUMP A	5.3220	5.8320	INDOOR
2ND PASS RO FILTER A	5.3220	5.8320	INDOOR
2ND PASS RO BOOSTER PUMP A	5.3220	5.8320	INDOOR
RO CARTRIDGE FILTER A	5.3220	5.8320	INDOOR
REVERSE OSMOSIS (RO) TRAIN B	5.3220	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
1ST PASS RO FILTER B	5.3220	5.8320	INDOOR
1ST PASS RO BOOSTER PUMP B	5.3220	5.8320	INDOOR
2ND PASS RO FILTER B	5.3220	5.8320	INDOOR
2ND PASS RO BOOSTER PUMP B	5.3220	5.8320	INDOOR
RO CARTRIDGE FILTER B	5.3220	5.8320	INDOOR
CLEAN IN PLACE (CIP) SKID	5.3220	5.8320	INDOOR
UF/RO CIP CARTRIDGE FILTER	5.3220	5.8320	INDOOR
UF/RO CIP TANK	5.3220	5.8320	INDOOR
UF/RO CIP TANK HEATER	5.3220	5.8320	INDOOR
UF/RO CIP FORWARDING PUMP	5.3220	5.8320	INDOOR
RO RINSE PUMP SKID	5.3220	5.8320	INDOOR
RO SODIUM BISULFITE FEED SKID	5.3220	5.8320	INDOOR
RO ANTI-SCALANT FEED SKID	5.3220	5.8320	INDOOR
RO SODIUM HYDROXIDE FEED SKID	5.3220	5.8320	INDOOR
RO ACID FEED SKID	5.3220	5.8320	INDOOR
SAMPLE ANALYSIS COOLER	5.3310	5.8320	INDOOR
SAMPLE ANALYSIS PANEL SANITARY TREAMENT FACILITY	5.3310 5.3430	5.8320 5.8320	INDOOR OUTDOOR
GTG BUILDING CRANE	5.4210	5.8320	
	5.4210		INDOOR
	5.4210 5.4310B	5.8320	INDOOR INDOOR
POWER BLOCK BUILDING AIR HANDLING UNIT (AHU)		5.4310B	
POWER BLOCK BUILDING AIR HANDLING UNIT (AHU) POWER BLOCK BUILDING AIR HANDLING UNIT (AHU)	5.4310B	5.4310B	INDOOR
	5.4310B	5.4310B	INDOOR
	5.4310B	5.4310B 5.4310B	INDOOR
POWER BLOCK BUILDING AIR HANDLING UNIT (AHU) POWER BLOCK BUILDING AIR HANDLING UNIT (AHU)	5.4310B 5.4310B	5.4310B	INDOOR INDOOR
POWER BLOCK BUILDING AIR HANDEING ONT (ARO)	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR
POWER BLOCK BUILDING FAN	5.4310B	5.4310B	OUTDOOR

POWER BLOCK BUILDING FAN 5.4310B POWER BLOCK BUILDING FAN 5.4310B POWER BLOCK BUILDING GAS UNIT HEATER (GUH) 5.4310B POWER BLOCK BUILDING LOUVER 5.4310B	5.4310B 5.4310B	OUTDOOR OUTDOOR INDOOR
POWER BLOCK BUILDING FAN 5.4310B POWER BLOCK BUILDING GAS UNIT HEATER (GUH) 5.4310B POWER BLOCK BUILDING LOUVER 5.4310B	5.4310B 5.4310B	OUTDOOR INDOOR
POWER BLOCK BUILDING GAS UNIT HEATER (GUH)5.4310BPOWER BLOCK BUILDING CAS UNIT HEATER (GUH)5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOW	5.4310B 5.4310B	INDOOR INDOOR
POWER BLOCK BUILDING GAS UNIT HEATER (GUH)5.4310BPOWER BLOCK BUILDING GAS UNIT HEATER (GUH)5.4310BPOWER BLOCK BUILDING GAS UNIT HEATER (GUH)5.4310BPOWER BLOCK BUILDING CAS UNIT HEATER (GUH)5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDI	5.4310B 5.4310B	INDOOR INDOOR
POWER BLOCK BUILDING GAS UNIT HEATER (GUH) 5.4310B POWER BLOCK BUILDING GAS UNIT HEATER (GUH) 5.4310B POWER BLOCK BUILDING LOUVER	5.4310B 5.4310B	INDOOR INDOOR
POWER BLOCK BUILDING GAS UNIT HEATER (GUH)5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPO	5.4310B 5.4310B	INDOOR INDOOR
POWER BLOCK BUILDING GAS UNIT HEATER (GUH)5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPO	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILD	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING CUVER5.4310BPOWER BLOCK BUILDING CUVER5.4310BPOWER BLOCK BUILDIN	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING CUVER5.4310BPOWER BLOCK BUILDING CUVER5.4310BPOWER BLOCK BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC U	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREAT	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING CUVER5.4310BPOWER BLOCK BUILDING CUVER5.4310BPOWER BLOCK BUILDING CUVER5.4310BPOWER BLOCK BUILDING CUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310B<	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (E	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECT	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310B	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDIN	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310B	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRI	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B <td>5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B</td> <td>INDOOR INDOOR INDOOR INDOOR</td>	5.4310B 5.4310B 5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILD	5.4310B 5.4310B 5.4310B 5.4310B	INDOOR INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B 5.4310B 5.4310B	INDOOR INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B 5.4310B	INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B		INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B		INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
POWER BLOCK BUILDING LOUVER5.4310BPOWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
POWER BLOCK BUILDING LOUVER5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATER (EUH)5.4310BWATER TREATMENT BUILDING FAN5.4310B	5.4310B	INDOOR
WATER TREATMENT BUILDING FAN 5.4310B	5.4310B	INDOOR
	5.4310B	INDOOR
	5.4310B	OUTDOOR
WATER TREATMENT BUILDING LOUVER5.4310BWATER TREATMENT BUILDING SELF-CONTAINED AIR-CONDITIONING UNIT (SAU)5.4310B	5.4310B 5.4310B	INDOOR OUTDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4310	5.43105	INDOOR
	5.4311	
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311 ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311 ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311	5.4311	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNIT (VAV) 5.4311		INDOOR
ADMINISTRATION BUILDING ROOF TOP UNIT (RTU) 5.4311		OUTDOOR
GTG1 GENERATOR STEP-UP (GSU) TRANSFORMER 5.5110	5.4311	OUTDOOR
GTG2 GENERATOR STEP-UP (GSU) TRANSFORMER 5.5110	5.4311 5.4311	
STG GENERATOR STEP-UP (GSU) TRANSFORMER 5.5110	5.4311	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GTG1 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG2 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG1 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG2 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
STG GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG1 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
GTG2 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
STG ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
STANDBY DIESEL GENERATOR	5.5240	5.8410	OUTDOOR
4160V SWGR A	5.5310	5.8410	INDOOR
4160V SWGR B	5.5310	5.8410	INDOOR
ACC MCC 1 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 2 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 3 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 4 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 5 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 6 (ACC PCM)	5.5310	5.8410	INDOOR
ACC STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
ACC STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP MCC 1	5.5310	5.8410	INDOOR
BOP MCC 2	5.5310	5.8410	INDOOR
BOP MCC 3	5.5310	5.8410	INDOOR
BOP MCC 4	5.5310	5.8410	INDOOR
ESS 480V SWGR A	5.5310	5.8410	INDOOR
ESS STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR B	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR C	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR D	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
STG 480V SWGR	5.5310	5.8410	INDOOR
STG STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
STG 480V SWGR	5.5310	5.8410	INDOOR
STG STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
WT 480V SWGR A	5.5310	5.8410	INDOOR
WT STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
WT 480V SWGR B	5.5310	5.8410	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
WT STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG1 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG1 MCC	5.5310	5.8410	INDOOR
GTG2 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG2 MCC	5.5310	5.8410	INDOOR
HRSG1 MCC	5.5310	5.8410	INDOOR
HRSG2 MCC	5.5310	5.8410	INDOOR
STG MCC	5.5310	5.8410	INDOOR
UPS AND 125VDC SYSTEM	5.5310	5.8410	INDOOR
WATER TREATMENT MCC	5.5310	5.8410	INDOOR
PLANT COMMUNICATIONS EQUIPMENT (GAITRONICS)	5.5670	5.8410	INDOOR
DCS (BOP)	5.6110	5.8410	INDOOR
FUEL GAS CHROMATOGRAPH	5.6211	5.8320	OUTDOOR
POWER BLOCK BUILDING AIR HANDLING UNITS (AHU)	5.8340	5.8340	INDOOR
POWER BLOCK BUILDING FANS	5.8340	5.8340	OUTDOOR
POWER BLOCK BUILDING GAS UNIT HEATERS (GUH)	5.8340	5.8340	INDOOR
POWER BLOCK BUILDING LOUVERS	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATERS (EUH)	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING FANS	5.8340	5.8340	OUTDOOR
WATER TREATMENT BUILDING LOUVERS	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING SELF-CONTAINED AIR-CONDITIONING UNITS (SAU)	5.8340	5.8340	OUTDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNITS (VAV)	5.8340	5.8340	INDOOR
ADMINISTRATION BUILDING FAN	5.8340	5.8340	OUTDOOR
ADMINISTRATION BUILDING ROOF TOP UNITS (RTU)	5.8340	5.8340	OUTDOOR
MAINTENANCE SHOP FAN	5.8340	5.8340	OUTDOOR
MAINTENANCE SHOP GAS UNIT HEATER (GUH)	5.8340	5.8340	INDOOR
MAINTENANCE SHOP LOUVER	5.8340	5.8340	INDOOR
MAINTENANCE SHOP/WAREHOUSE MAKE-UP AIR UNIT (MAU)	5.8340	5.8340	OUTDOOR
WAREHOUSE FAN	5.8340	5.8340	OUTDOOR
WAREHOUSE GAS UNIT HEATER (GUH)	5.8340	5.8340	INDOOR
WAREHOUSE LOUVER	5.8340	5.8340	INDOOR
GT1 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT2 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
STG GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
DEMINERALIZED WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
SERVICE/FIRE WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
SERVICE/FIRE WATER STORAGE TANK HEATERS	5.8570	5.8570	OUTDOOR
SERVICE/FIRE WATER STORAGE TANK HEATER	5.8570	5.8570	OUTDOOR
CLARIFIED WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK A	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK B	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK HEATER	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK HEATER	5.8570	5.8570	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
AMMONIA TOTE	OWNER	5.8320	INDOOR
AUXILIARY BOILER CHEMICAL TOTE	OWNER	5.8320	INDOOR
NITROGEN BOTTLE RACK	OWNER	5.8320	OUTDOOR
OFF-SITE SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
ON-SITE SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
OXYGEN SCAVENGER TOTE	OWNER	5.8320	INDOOR
RO ANTI-SCALANT TOTE	OWNER	5.8320	INDOOR
RO SODIUM BISULFITE TOTE	OWNER	5.8320	INDOOR
RO SODIUM HYDROXIDE TOTE	OWNER	5.8320	INDOOR
RO SULFURIC ACID TOTE	OWNER	5.8320	INDOOR
UF CEB CITRIC ACID TOTE	OWNER	5.8320	INDOOR
UF CEB SODIUM HYDROXIDE TOTE	OWNER	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
COOLING TOWER POLYMER TOTE	OWNER	5.8320	INDOOR
COOLING TOWER CORROSION INHIBITOR TOTE	OWNER	5.8320	INDOOR
COOLING TOWER SCALE INHIBITOR TOTE	OWNER	5.8320	INDOOR
UNIT 1 PHOSPHATE TOTE	OWNER	5.8320	INDOOR
UNIT 2 PHOSPHATE TOTE	OWNER	5.8320	INDOOR
STEAM TURBINE GENERATOR (STG)	5.1110	5.8320	INDOOR
STG HOTBOX	5.1110	5.8320	INDOOR
STG HP/IP TURBINE	5.1110	5.8320	INDOOR
STG LP TURBINE	5.1110	5.8320	INDOOR
STG BEARING LIFT OIL FILTER 1	5.1110	5.1110	INDOOR
STG BEARING LIFT OIL FILTER 2	5.1110	5.1110	INDOOR
STG BEARING LIFT OIL PUMP 1	5.1110	5.1110	INDOOR
STG BEARING LIFT OIL PUMP 2	5.1110	5.1110	INDOOR
STG EMERGENCY LUBE OIL PUMP	5.1110	5.1110	INDOOR
STG LUBE OIL COOLER 1	5.1110	5.8320	INDOOR
STG LUBE OIL COOLER 2	5.1110	5.8320	INDOOR
STG LUBE OIL FILTER 1	5.1110	5.8320	INDOOR
STG LUBE OIL FILTER 2	5.1110	5.8320	INDOOR
STG LUBE OIL MODULE/TANK	5.1110	5.8320	INDOOR
STG LUBE OIL PUMP 1	5.1110	5.8320	INDOOR
STG LUBE OIL PUMP 2	5.1110	5.8320	INDOOR
STG LUBE OIL VAPOR EXHAUST OIL SEPARATOR	5.1110	5.8320	INDOOR
STG LUBE OIL VAPOR EXHAUSTER 1	5.1110	5.8320	INDOOR
STG LUBE OIL VAPOR EXHAUSTER 2 STG OIL PURIFICATION UNIT	5.1110	5.8320	INDOOR INDOOR
STG OIL PURIFICATION UNIT STG OIL PURIFICATION UNIT HEATER	<u>5.1110</u> 5.1110	5.8320	INDOOR
STG OIL PURIFICATION UNIT HEATER STG OIL PURIFICATION UNIT PUMP	5.1110	5.8320 5.8320	INDOOR
STG GLAND STEAM CONDENSER			INDOOR
STG GLAND STEAM CONDENSER STG GLAND STEAM EXHAUSTER 1	<u>5.1110</u> 5.1110	5.8320 5.1110	INDOOR
STG GLAND STEAM EXHAUSTER 1	5.1110	5.1110	INDOOR
STG GLAND STEAM EXHAUSTER 2 STG HYDRAULIC OIL UNIT/TANK	5.1110	5.8320	INDOOR
STG HYDRAULIC/CONTROL OIL COOLING CIRCULATION PUMP 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL COOLING CIRCULATION PUMP 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL COOLING FAN 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL COOLING FAN 2	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL FILTER 1	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL FILTER 2	5.1110	5.1110	INDOOR
STG HYDRAULIC/CONTROL OIL HEATER	5.1110	5.8320	INDOOR
STG HYDRAULIC/CONTROL OIL PUMP 1	5.1110	5.8320	INDOOR
STG HYDRAULIC/CONTROL OIL PUMP 2	5.1110	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
STG TRANSFORMER SEE	5.1110	5.8410	INDOOR
STG TRANSFORMER SEE PACKAGE	5.1110	5.8410	INDOOR
STG VT SURGE CUBICLE	5.1110	5.8410	INDOOR
COMMON GT WATER WASH SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - UNIT 1	5.1120	5.8320	INDOOR
GT1 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT1 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT1 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FILTER #2 GT1 CONTROL OIL PUMP #1	<u>5.1120</u> 5.1120	5.8320 5.8320	INDOOR INDOOR
GT1 CONTROL OIL PUMP #1 GT1 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL POMP #2 GT1 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR GT1 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT1 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT1 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT1 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT1 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT1 ENCLOSURE	5.1120	5.8320	INDOOR
GT1 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT1 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT1 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT1 GENERATOR	5.1120	5.8320	INDOOR
GT1 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT1 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT1 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT1 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320 5.8320	
GT1 LUBE OIL VAPOR EXTRACTOR #1 GT1 LUBE OIL VAPOR EXTRACTOR #2	5.1120 5.1120	5.8320	INDOOR INDOOR
GT1 LV PANEL BOARD TRANSFORMER	5.1120	5.8320	INDOOR
GTT LV PANEL BOARD TRANSFORMER GT1 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT1 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT1 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT1 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT1 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT1 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT1 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT1 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT1 WATER INJECTION SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - UNIT 2	5.1120	5.8320	INDOOR
GT2 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT2 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT2 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT2 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT2 ENCLOSURE	5.1120	5.8320	INDOOR
GT2 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT2 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT2 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT2 GENERATOR	5.1120	5.8320	INDOOR
GT2 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT2 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT2 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT2 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT2 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT2 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320 5.8320	INDOOR
GT2 LUBE OIL FILTER #1	5.1120		INDOOR
GT2 LUBE OIL FILTER #2 GT2 LUBE OIL PUMP #1	<u>5.1120</u> 5.1120	5.8320 5.8320	INDOOR INDOOR
GT2 LUBE OIL PUMP #1 GT2 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT2 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT2 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT2 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT2 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT2 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT2 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT2 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT2 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT2 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT2 WATER INJECTION SKID	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
HRSG1	5.1215	5.8320	INDOOR
HRSG1 AIG BLOWER A	5.1215	5.8320	INDOOR
HRSG1 AIG BLOWER B	5.1215	5.8320	INDOOR
HRSG1 BLOWDOWN TANK	5.1215	5.8320	INDOOR
HRSG1 CONDENSATE RECIRCULATION PUMP	5.1215	5.8320	INDOOR
HRSG1 COOLING BLOWER A	5.1215	5.8320	INDOOR
HRSG1 COOLING BLOWER B	5.1215	5.8320	INDOOR
HRSG1 EXHAUST STACK	5.1215	5.8320	INDOOR
HRSG1 CEMS SHELTER ANALYZER CABINET	5.1215	5.8320	OUTDOOR
GTG1 CEMS ANALYZER CABINET	5.1215	5.8410	INDOOR
HRSG2	5.1215	5.8320	INDOOR
HRSG2 AIG BLOWER A	5.1215	5.8320	INDOOR
HRSG2 AIG BLOWER B	5.1215	5.8320	INDOOR
HRSG2 BLOWDOWN TANK	5.1215	5.8320	INDOOR
HRSG2 CONDENSATE RECIRCULATION PUMP	5.1215	5.8320	INDOOR
HRSG2 COOLING BLOWER A	5.1215	5.8320	INDOOR
HRSG2 COOLING BLOWER B	5.1215	5.8320	INDOOR INDOOR
HRSG2 EXHAUST STACK HRSG2 CEMS SHELTER ANALYZER CABINET	5.1215 5.1215	5.8320 5.8320	OUTDOOR
GTG2 CEMS ANALYZER CABINET	5.1215	5.8410	INDOOR
BOILER FEEDWATER PUMP 1A	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP 18	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP LUBE OIL PUMP 1A	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP LUBE OIL PUMP 1B	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP 2A	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP 2B	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP LUBE OIL PUMP 2A	5.2110	5.8320	INDOOR
BOILER FEEDWATER PUMP LUBE OIL PUMP 2B	5.2110	5.8320	INDOOR
AUXILIARY COOLING WATER PUMP	5.2120	5.8320	OUTDOOR
CIRCULATING WATER PUMP A	5.2120	5.8320	OUTDOOR
CIRCULATING WATER PUMP B	5.2120	5.8320	OUTDOOR
CONDENSATE PUMP A	5.2130	5.8320	INDOOR
CONDENSATE PUMP B	5.2130	5.8320	INDOOR
CONDENSATE PUMP C	5.2130	5.8320	INDOOR
DIESEL FIRE PUMP	5.2150	5.8320	INDOOR
ELECTRIC FIRE PUMP	5.2150	5.8320	INDOOR
JOCKEY FIRE PUMP AND ENCLOSURE FEED	5.2150	5.8320	INDOOR
WASTEWATER SUMP PUMP A	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP B	5.2180	5.8320	OUTDOOR
UNIT 1 HRSG BLOWDOWN SUMP PUMP A	5.2180	5.8320	OUTDOOR
UNIT 1 HRSG BLOWDOWN SUMP PUMP B	5.2180	5.8320	OUTDOOR
UNIT 2 HRSG BLOWDOWN SUMP PUMP A	5.2180	5.8320	OUTDOOR
UNIT 2 HRSG BLOWDOWN SUMP PUMP B	5.2180	5.8320	OUTDOOR
CLARIFIED WATER TRANSFER PUMP A	5.2180	5.8320	INDOOR
CLARIFIED WATER TRANSFER PUMP B	5.2180	5.8320	INDOOR
CLEARWELL SUMP PUMP A	5.2180	5.8320	OUTDOOR
CLEARWELL SUMP PUMP B	5.2180	5.8320	OUTDOOR
CLEARWELL SUMP PUMP C FUEL OIL FORWARDING PUMP A	5.2180	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP A	<u>5.2190</u> 5.2190	5.8320 5.8320	OUTDOOR OUTDOOR
FUEL OIL FORWARDING PUMP D	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING FOMF C	5.2190	5.8320	OUTDOOR
FUEL OIL TRANSFER PUMP A	5.2190	5.8320	OUTDOOR
CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
DEMINERALIZED WATER PUMP A	5.2190	5.8320	INDOOR
	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP B	57190	0.0.770	

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
SERVICE WATER PUMP B	5.2190	5.8320	INDOOR
POWERHOUSE SANITARY LIFT STATION	5.2191	5.8220	OUTDOOR
WAREHOUSE/ADMIN SANITARY LIFT STATION	5.2191	5.8220	OUTDOOR
COOLING TOWER	5.2210	5.8320	OUTDOOR
COOLING TOWER FAN 1	5.2210	5.2210	OUTDOOR
COOLING TOWER FAN 10	5.2210	5.2210	OUTDOOR
COOLING TOWER FAN 11	5.2210	5.2210	OUTDOOR
COOLING TOWER FAN 12	5.2210	5.2210	OUTDOOR
COOLING TOWER FAN 2	5.2210	5.2210	OUTDOOR
COOLING TOWER FAN 3	5.2210	5.2210	OUTDOOR
COOLING TOWER FAN 4	5.2210 5.2210	5.2210 5.2210	OUTDOOR
COOLING TOWER FAN 5 COOLING TOWER FAN 6	5.2210	5.2210	OUTDOOR OUTDOOR
COOLING TOWER FAN 6 COOLING TOWER FAN 7	5.2210	5.2210	OUTDOOR
COOLING TOWER FAN 7 COOLING TOWER FAN 8	5.2210	5.2210	OUTDOOR
COOLING TOWER FAN 8 COOLING TOWER FAN 9	5.2210	5.2210	OUTDOOR
CONDENSER	5.2220	5.8320	INDOOR
CONDENSER VACUUM PUMP A	5.2220	5.8320	INDOOR
CONDENSER VACUUM PUMP A RECIRC PUMP	5.2220	5.8320	INDOOR
CONDENSER VACUUM PUMP B	5.2220	5.8320	INDOOR
CONDENSER VACUUM PUMP B RECIRC PUMP	5.2220	5.8320	INDOOR
CLOSED COOLING WATER HEAT EXCHANGER A	5.2280	5.8320	INDOOR
CLOSED COOLING WATER HEAT EXCHANGER B	5.2280	5.8320	INDOOR
POTABLE WATER WATER HEATER TANKS	5.2490	5.8320	INDOOR
AIR COMPRESSOR A	5.2710	5.8320	INDOOR
AIR COMPRESSOR B	5.2710	5.8320	INDOOR
AIR COMPRESSOR C	5.2710	5.8320	INDOOR
AIR DRYER A	5.2710	5.8320	INDOOR
AIR DRYER B	5.2710	5.8320	INDOOR
AQUEOUS AMMONIA STORAGE TANK	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA UNLOADING SKID	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA FORWARDING PUMP A	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA FORWARDING PUMP B	5.2750	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER A	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER B	5.2762	5.8320	OUTDOOR
FUEL GAS REGULATING/METERING SKID	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER A	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER B	5.2762	5.8320	OUTDOOR
	5.2762	5.8320	OUTDOOR
FUEL GAS COALESCING FILTER SEPARATOR SKID	5.2762	5.8320	OUTDOOR
	5.2762	5.8320	OUTDOOR
FUEL GAS COALESCING FILTER SEPARATOR	5.2762	5.8320	OUTDOOR
FUEL GAS DRAINS TANK FUEL GAS DRAINS TANK	5.2762 5.2762	5.8320 5.8320	INDOOR INDOOR
AUXILIARY BOILER	5.2910	5.8320	INDOOR
AUXILIARY BOILER BLOWDOWN TANK	5.2910	5.8320	INDOOR
AUXILIARY BOILER DEAERATOR	5.2910	5.8320	INDOOR
AUXILIARY BOILER FD FAN	5.2910	5.8320	INDOOR
AUXILIARY BOILER FEEDWATER PUMP A	5.2910	5.8320	INDOOR
AUXILIARY BOILER FEEDWATER PUMP B	5.2910	5.8320	INDOOR
AUXILIARY STEAM ELECTRIC SUPERHEATER	5.2910	5.8320	INDOOR
WASH WATER DRAINS TANK	5.2940	5.8320	OUTDOOR
OIL WATER SEPARATOR	5.2940	5.8220	OUTDOOR
DRY AIR RECEIVER	5.2980	5.8320	INDOOR
WET AIR RECEIVER	5.2980	5.8320	INDOOR
PULSE AIR RECEIVERS	5.2980	5.8320	INDOOR
CLOSED COOLING WATER HEAD TANK	5.2980	5.8320	OUTDOOR
CLOSED COOLING WATER CHEMICAL POT FEEDER	5.2980	5.8320	INDOOR
STG ATM DRAINS TANK	5.2980	5.8320	INDOOR
COOLING TOWER CHEMICAL FEED ENCLOSURE	5.3120	5.8320	OUTDOOR
CIRCULATING WATER SAMPLE PANEL	5.3120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
COOLING TOWER ACID PUMP SKID	5.3120	5.8320	INDOOR
COOLING TOWER ACID PUMP A	5.3120	5.8320	INDOOR
COOLING TOWER ACID PUMP B	5.3120	5.8320	INDOOR
COOLING TOWER CORROSION INHIBITOR PUMP SKID	5.3120	5.8320	INDOOR
COOLING TOWER CORROSION INHIBITOR PUMP A	5.3120	5.8320	INDOOR
COOLING TOWER CORROSION INHIBITOR PUMP B	5.3120	5.8320	INDOOR
COOLING TOWER SODIUM BISULFITE PUMP SKID	5.3120	5.8320	INDOOR
COOLING TOWER SODIUM BISULFITE PUMP A	5.3120	5.8320	INDOOR
COOLING TOWER SODIUM BISULFITE PUMP B COOLING TOWER SCALE INHIBITOR PUMP SKID	5.3120 5.3120	5.8320 5.8320	INDOOR INDOOR
COOLING TOWER SCALE INHIBITOR PUMP A	5.3120	5.8320	INDOOR
COOLING TOWER SCALE INHIBITOR PUMP A	5.3120	5.8320	INDOOR
COOLING TOWER SODIUM HYPOCHLORITE PUMP SKID	5.3120	5.8320	INDOOR
COOLING TOWER SODIUM HYPOCHLORITE PUMP A	5.3120	5.8320	INDOOR
COOLING TOWER SODIUM HYPOCHLORITE PUMP B	5.3120	5.8320	INDOOR
COOLING TOWER ACID STORAGE TANK	5.3120	5.8320	OUTDOOR
COOLING TOWER SODIUM HYPOCHLORITE STORAGE TANK	5.3120	5.8320	OUTDOOR
AMMONIA CHEMICAL SKID	5.3210	5.8320	INDOOR
AMMONIA FEED PUMP A	5.3210	5.8320	INDOOR
AMMONIA FEED PUMP B	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED SKID	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED PUMP A	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED PUMP B	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEMICAL SKID	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEM FEED PUMP A	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEM FEED PUMP B	5.3210	5.8320	INDOOR
SODIUM HYPOCHLORITE SHELTER HOUSE	5.3210	5.8320	INDOOR
SODIUM HYPOCHLORITE TRANSFER PUMP A	5.3210	5.8320	INDOOR
SODIUM HYPOCHLORITE TRANSFER PUMP B	5.3210	5.8320	INDOOR
HRSG 1 HP/IP PHOSPHATE SKID HRSG 2 HP/IP PHOSPHATE SKID	5.3210 5.3210	5.8320 5.8320	INDOOR INDOOR
AUTOMATIC BACKWASH STRAINER & OIL/GREASE CARTRIDGE FILTER SKID	5.3210	5.8320	INDOOR
UF FILTER TRAIN A	5.3210	5.8320	INDOOR
UF FILTER TRAIN B	5.3210	5.8320	INDOOR
ULTRAFILTRATION (UF) BACKWASH PUMP SKID	5.3210	5.8320	INDOOR
UF CHEMICAL ENHANCED BACKWASH (CEB) SODIUM HYDROXIDE FEED SKID	5.3210	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE FEED SKID	5.3210	5.8320	INDOOR
UF CEB CITRIC ACID FEED SKID	5.3210	5.8320	INDOOR
UF BACKWASH TANK	5.3210	5.8320	INDOOR
CALCITE FILTERS	5.3210	5.8320	INDOOR
MIXED BED VALVE MANIFOLD	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL A	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL B	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL C	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL D	5.3220	5.8320	INDOOR
REVERSE OSMOSIS (RO) TRAIN A	5.3220	5.8320	INDOOR

1ST PASS RO BOOSTER PUMP A 5.3220 5.8320 INDOOR 2ND PASS RO FILTER A 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP A 5.3220 5.8320 INDOOR RO CARTRIDGE FILTER A 5.3220 5.8320 INDOOR REVERSE OSMOSIS (RO) TRAIN B 5.3220 5.8320 INDOOR 1ST PASS RO FILTER B 5.3220 5.8320 INDOOR 1ST PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR 2ND PASS RO FILTER B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR CLEAN IN PLACE (CIP) SKID 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP TANK 5.3220 5.8320 INDOOR UF/RO CIP TANK HEATER 5.3220 5.8320 INDOOR RO SODUM BUSULFITE FEED SKID 5.3220 5.8320 INDOOR RO SODUM BUSULFITE FEED SKID	Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
ZND PASS RO FILTER A 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP A 5.3220 5.8320 INDOOR RC CARTRIDGE FILTER A 5.3220 5.8320 INDOOR REVERSE OSMOSIS (RO) TRAIN B 5.3220 5.8320 INDOOR 1ST PASS RO FILTER B 5.3220 5.8320 INDOOR 2ND PASS RO FILTER B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR CLEAN IN PLACE (CIP) SKID 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER B 5.3220 5.8320 INDOOR UF/RO CIP TANK 5.3220 5.8320 INDOOR UF/RO CIP TANK HEATER 5.3220 5.8320 INDOOR QFOR CIP FORWARDING PUMP 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID	1ST PASS RO FILTER A	5.3220	5.8320	INDOOR
ZND PASS RO BOOSTER PUMP A 5.3220 5.8320 INDOOR RO CARTRIDGE FILTER A 5.3220 5.8320 INDOOR REVERSE OSMOSIS (RO) TRAIN B 5.3220 5.8320 INDOOR 1ST PASS RO FILTER B 5.3220 5.8320 INDOOR 2ND PASS RO FILTER B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR CLEAN IN PLACE (CIP) SKID 5.3220 5.8320 INDOOR CLEAN IN PLACE (CIP) SKID 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP TANK 5.3220 5.8320 INDOOR UF/RO CIP TANK 5.3220 5.8320 INDOOR QUF/RO CIP TANK HEATER 5.3220 5.8320 INDOOR QUF/RO CIP FORWARDING PUMP 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID 5	1ST PASS RO BOOSTER PUMP A	5.3220	5.8320	INDOOR
RO CARTRIDGE FILTER A 5.3220 5.8320 INDOOR REVERSE OSMOSIS (RO) TRAIN B 5.3220 5.8320 INDOOR 1ST PASS RO FILTER B 5.3220 5.8320 INDOOR 1ST PASS RO FILTER B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR RO CARTRIDGE FILTER B 5.3220 5.8320 INDOOR RO CARTRIDGE FILTER B 5.3220 5.8320 INDOOR CLEAN IN PLACE (CIP) SKID 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP FORWARDING PUMP 5.3220 5.8320 INDOOR RO RINSE PUMP SKID 5.3220 5.8320 INDOOR RO SODIUM BISULFITE FEED SKID 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID 5.3220 5.8320 INDOOR RO ACID FEED SKID <	2ND PASS RO FILTER A	5.3220	5.8320	INDOOR
REVERSE OSMOSIS (RO) TRAIN B 5.3220 5.8320 INDOOR IST PASS RO FILTER B 5.3220 5.8320 INDOOR IST PASS RO FILTER B 5.3220 5.8320 INDOOR ZND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR ZND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR ZND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR RO CARTRIDGE FILTER B 5.3220 5.8320 INDOOR CLEAN IN PLACE (CIP) SKID 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP TANK 5.3220 5.8320 INDOOR UF/RO CIP FORWARDING PUMP 5.3220 5.8320 INDOOR RO RINSE PUMP SKID 5.3220 5.8320 INDOOR RO SODIUM BISULFITE FEED SKID 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID 5.3220 5.8320 INDOOR RO ACID FEED SKID 5.3220 5.8320 INDOOR RO ACID FEED SKID 5.3220<	2ND PASS RO BOOSTER PUMP A	5.3220	5.8320	INDOOR
IST PASS RO FILTER B 5.3220 5.8320 INDOOR 1ST PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR 2ND PASS RO FILTER B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR RO CARTRIDGE FILTER B 5.3220 5.8320 INDOOR CLEAN IN PLACE (CIP) SKID 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP TANK 5.3220 5.8320 INDOOR UF/RO CIP FORWARDING PUMP 5.3220 5.8320 INDOOR QF RO RINSE PUMP SKID 5.3220 5.8320 INDOOR RO SODIUM BISULFITE FEED SKID 5.3220 5.8320 INDOOR RO SODIUM HYDROXIDE FEED SKID 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID 5.3220 5.8320 INDOOR SAMPLE ANALYSIS COLER 5.3310 5.8320 INDOOR SAMPLE ANALYSIS COLER	RO CARTRIDGE FILTER A	5.3220	5.8320	INDOOR
IST PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR 2ND PASS RO FILTER B 5.3220 5.8320 INDOOR 2ND PASS RO BOOSTER PUMP B 5.3220 5.8320 INDOOR RO CARTRIDGE FILTER B 5.3220 5.8320 INDOOR CLEAN IN PLACE (CIP) SKID 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP CARTRIDGE FILTER 5.3220 5.8320 INDOOR UF/RO CIP TANK 5.3220 5.8320 INDOOR UF/RO CIP FORWARDING PUMP 5.3220 5.8320 INDOOR RO RINSE PUMP SKID 5.3220 5.8320 INDOOR RO SODIUM BISULFITE FEED SKID 5.3220 5.8320 INDOOR RO ANTI-SCALANT FEED SKID 5.3220 5.8320 INDOOR RO AOTI-SCALANT FEED SKID 5.3220 5.8320 INDOOR SAMPLE ANALYSIS COOLER 5.3310 5.8320 INDOOR SAMPLE ANALYSIS COOLER	REVERSE OSMOSIS (RO) TRAIN B	5.3220	5.8320	INDOOR
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CLARIFIER B SLUDGE PUMP SKID 5.3410 5.8320 INDOOR CLARIFIER B SLUDGE PUMP A 5.3410 5.8320 INDOOR CLARIFIER B SLUDGE PUMP B 5.3410 5.8320 INDOOR CLARIFIER B SLUDGE PUMP B 5.3410 5.8320 INDOOR CLARIFIER B SLUDGE PUMP C 5.3410 5.8320 INDOOR FILTER PRESS CLOTH WASH TANK 5.3410 5.8320 INDOOR	CLARIFIER A SLUDGE PUMP B	5.3410	5.8320	INDOOR
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FILTER PRESS CLOTH WASH TANK 5.3410 5.8320 INDOOR				
	FILTER PRESS CLOTH WASH PUMP SKID	5.3410	5.8320	INDOOR
				INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
FILTER PRESS CLOTH WASH PUMP B	5.3410	5.8320	INDOOR
FILTER PRESS FEED PUMP SKID	5.3410	5.8320	INDOOR
FILTER PRESS FEED PUMP A	5.3410	5.8320	INDOOR
FILTER PRESS FEED PUMP B	5.3410	5.8320	INDOOR
FILTER PRESS FEED PUMP C	5.3410	5.8320	INDOOR
FILTER PRESS A	5.3410	5.8320	INDOOR
FILTER PRESS B	5.3410	5.8320	INDOOR
POLYMER TOTE	OWNER	5.8320	INDOOR
CLARIFIER POLYMER TOTE MIXER	5.3410	5.8320	INDOOR
CLARIFIER POLYMER FEED SKID	5.3410	5.8320	INDOOR
CLARIFIER POLYMER FEED PUMP A	5.3410	5.8320	INDOOR
CLARIFIER POLYMER FEED PUMP B	5.3410	5.8320	INDOOR
CLARIFIER POLYMER BLENDING SYSTEM	5.3410	5.8320	INDOOR
CLARIFIER COAGULANT TOTE	OWNER	5.8320	INDOOR
CLARIFIER COAGULANT FEED SKID	5.3410	5.8320	INDOOR
CLARIFIER COAGULANT FEED PUMP A	5.3410	5.8320	INDOOR
CLARIFIER COAGULANT FEED PUMP B	5.3410	5.8320	INDOOR
GTG BUILDING CRANE	5.4210	5.8320	INDOOR
	5.4210	5.8320	INDOOR
GTG1 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG2 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
STG GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG1 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG2 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG1 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG2 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
STG GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG1 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
GTG2 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
STG ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
STANDBY DIESEL GENERATOR	5.5240	5.8410	OUTDOOR
4160V SWGR A	5.5310	5.8410	INDOOR
4160V SWGR B	5.5310	5.8410	INDOOR
ACC MCC 1 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 2 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 3 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 4 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 5 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 6 (ACC PCM)	5.5310	5.8410	INDOOR
ACC STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
ACC STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP MCC 1	5.5310	5.8410	INDOOR
BOP MCC 2	5.5310	5.8410	INDOOR
BOP MCC 3	5.5310	5.8410	INDOOR
BOP MCC 4	5.5310	5.8410	INDOOR
ESS 480V SWGR A	5.5310	5.8410	INDOOR
ESS STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR B	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR C	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR D	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
	5.5310	5.8410	INDOOR
STG STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
	5.5310	5.8410	INDOOR
STG STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
WT 480V SWGR A	5.5310	5.8410	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
WT STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
WT 480V SWGR B	5.5310	5.8410	INDOOR
WT STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG1 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG1 MCC	5.5310	5.8410	INDOOR
GTG2 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG2 MCC	5.5310	5.8410	INDOOR
HRSG1 MCC	5.5310	5.8410	INDOOR
HRSG2 MCC	5.5310	5.8410	INDOOR
STG MCC	5.5310	5.8410	INDOOR
UPS AND 125VDC SYSTEM	5.5310	5.8410	INDOOR
WATER TREATMENT MCC	5.5310	5.8410	INDOOR
PLANT COMMUNICATIONS EQUIPMENT (GAITRONICS)	5.5670	5.8410	INDOOR
DCS (BOP)	5.6110	5.8410	INDOOR
FUEL GAS CHROMATOGRAPH	5.6211	5.8320	OUTDOOR
POWER BLOCK BUILDING AIR HANDLING UNITS (AHU)	5.8340	5.8340	INDOOR
POWER BLOCK BUILDING FANS	5.8340	5.8340	OUTDOOR
POWER BLOCK BUILDING GAS UNIT HEATERS (GUH)	5.8340	5.8340	INDOOR
POWER BLOCK BUILDING LOUVERS	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATERS (EUH)	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING FANS	5.8340	5.8340	OUTDOOR
WATER TREATMENT BUILDING LOUVERS	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING SELF-CONTAINED AIR-CONDITIONING UNITS (SAU)	5.8340	5.8340	OUTDOOR
COOLING TOWER CHEMICAL FEED ENCLOSURE ELECTRIC UNIT HEATERS (EUH)	5.3120	5.3120	INDOOR
COOLING TOWER CHEMICAL FEED ENCLOSURE FANS	5.3120	5.3120	OUTDOOR
COOLING TOWER CHEMICAL FEED ENCLOSURE LOUVERS	5.3120	5.3120	INDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNITS (VAV)	5.8340	5.8340	INDOOR
ADMINISTRATION BUILDING FAN	5.8340	5.8340	OUTDOOR
ADMINISTRATION BUILDING ROOF TOP UNITS (RTU)	5.8340	5.8340	OUTDOOR
MAINTENANCE SHOP FAN	5.8340	5.8340	OUTDOOR
MAINTENANCE SHOP GAS UNIT HEATER (GUH)	5.8340	5.8340	INDOOR
MAINTENANCE SHOP LOUVER	5.8340	5.8340	INDOOR
MAINTENANCE SHOP/WAREHOUSE MAKE-UP AIR UNIT (MAU)	5.8340	5.8340	OUTDOOR
WAREHOUSE FAN	5.8340	5.8340	OUTDOOR
WAREHOUSE GAS UNIT HEATER (GUH)	5.8340	5.8340	INDOOR
WAREHOUSE LOUVER	5.8340	5.8340	INDOOR
GT1 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT2 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
STG GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
DEMINERALIZED WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
SERVICE/FIRE WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
SERVICE/FIRE WATER STORAGE TANK HEATERS	5.8570	5.8570	OUTDOOR
CLARIFIED WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK A	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK B	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK B	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK HEATER	5.8570	5.8570	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
AMMONIA TOTE	OWNER	5.8320	INDOOR
AUXILIARY BOILER CHEMICAL TOTE	OWNER	5.8320	INDOOR
FUEL GAS DEWPOINT HEATER A	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER B	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER C	5.2762	5.8320	OUTDOOR
FUEL GAS REGULATING/METERING SKID	5.2762	5.8320	OUTDOOR
NITROGEN BOTTLE RACK	OWNER	5.8320	OUTDOOR
OFF-SITE SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
	OWNER	5.8320	INDOOR
OXYGEN SCAVENGER TOTE	OWNER	5.8320	INDOOR
RO ANTI-SCALANT TOTE	OWNER	5.8320	INDOOR
RO SODIUM BISULFITE TOTE	OWNER	5.8320	INDOOR
RO SODIUM HYDROXIDE TOTE	OWNER	5.8320	INDOOR
RO SULFURIC ACID TOTE	OWNER	5.8320	INDOOR
UF CEB CITRIC ACID TOTE	OWNER	5.8320	INDOOR
UF CEB SODIUM HYDROXIDE TOTE	OWNER	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
MIXED BED VALVE MANIFOLD	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL A	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL B	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL C	5.3220	5.8320	INDOOR
MIXED BED DEMINERALIZATION VESSEL D	5.3220	5.8320	INDOOR
UNIT 1 PHOSPHATE TOTE	OWNER	5.8320	INDOOR
UNIT 2 PHOSPHATE TOTE	OWNER	5.8320	INDOOR
UNIT 3 PHOSPHATE TOTE	OWNER	5.8320	INDOOR
PLANT COMMUNICATIONS EQUIPMENT (GAITRONICS)	5.5670	5.8410	INDOOR
DCS (BOP)	5.6110	5.8410	INDOOR
COMMON GT WATER WASH SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - UNIT 1	5.1120	5.8320	INDOOR
GT1 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
	5.1120	5.8410	INDOOR
GT1 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #1	<u>5.1120</u> 5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #2 GT1 CONTROL OIL FAN		5.8320	INDOOR INDOOR
GT1 CONTROL OIL FILTER #1	<u>5.1120</u> 5.1120	5.8320 5.8320	INDOOR
GT1 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT1 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT1 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT1 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT1 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT1 ENCLOSURE	5.1120	5.8320	INDOOR
GT1 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT1 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT1 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT1 GENERATOR	5.1120	5.8320	INDOOR
GT1 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT1 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT1 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT1 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR GT1 LUBE OIL RESERVOIR HEATER #1	<u>5.1120</u> 5.1120	5.8320 5.8320	INDOOR INDOOR
GT1 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT1 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT1 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT1 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT1 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT1 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT1 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT1 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT1 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT1 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT1 WATER INJECTION SKID	5.1120	5.8320	INDOOR
HRSG1	5.1215	5.8320	INDOOR
HRSG1 AIG BLOWER A	5.1215	5.8320	INDOOR
HRSG1 AIG BLOWER B	5.1215	5.8320	INDOOR
HRSG1 BLOWDOWN TANK	5.1215	5.8320	INDOOR
HRSG1 CONDENSATE RECIRCULATION PUMP	5.1215	5.8320	INDOOR
HRSG1 COOLING BLOWER A HRSG1 COOLING BLOWER B	5.1215	5.8320	INDOOR
	5.1215	5.8320	INDOOR
HRSG1 EXHAUST STACK HRSG1 CEMS SHELTER ANALYZER CABINET	5.1215	5.8320	INDOOR OUTDOOR
GTG1 CEMS ANALYZER CABINET	<u>5.1215</u> 5.1215	5.8320 5.8410	INDOOR
GAS TURBINE GENERATOR - UNIT 2	5.1120	5.8320	INDOOR
GT2 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT2 AIX INLET FILTER GT2 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT2 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT2 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT2 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT2 ENCLOSURE	5.1120	5.8320	INDOOR
GT2 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT2 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT2 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT2 GENERATOR	5.1120	5.8320	INDOOR
GT2 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT2 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT2 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT2 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT2 LOW SPEED TURNING GEAR GT2 LP CO2 FIRE PROTECTION SKID	<u>5.1120</u> 5.1120	5.8320 5.8320	INDOOR INDOOR
GT2 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT2 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT2 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT2 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT2 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT2 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT2 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT2 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT2 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #1 GT2 TURBINE VENT FAN #2	<u>5.1120</u> 5.1120	5.8320 5.8320	INDOOR INDOOR
GT2 TURBINE VENT FAN #2 GT2 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT2 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT2 WATER INJECTION SKID	5.1120	5.8320	INDOOR
HRSG2	5.1215	5.8320	INDOOR
HRSG2 AIG BLOWER A	5.1215	5.8320	INDOOR
HRSG2 AIG BLOWER B	5.1215	5.8320	INDOOR
HRSG2 BLOWDOWN TANK	5.1215	5.8320	INDOOR
HRSG2 CONDENSATE RECIRCULATION PUMP	5.1215	5.8320	INDOOR
HRSG2 COOLING BLOWER A	5.1215	5.8320	INDOOR
HRSG2 COOLING BLOWER B	5.1215	5.8320	INDOOR
HRSG2 EXHAUST STACK	5.1215	5.8320	INDOOR
HRSG2 CEMS SHELTER ANALYZER CABINET	5.1215	5.8320	OUTDOOR
GTG2 CEMS ANALYZER CABINET	5.1215	5.8410	INDOOR
GAS TURBINE GENERATOR - UNIT 3	5.1120	5.8320	INDOOR
GT3 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT3 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT3 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT3 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT3 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT3 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT3 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT3 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT3 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT3 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT3 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT3 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
	5.1120	5.8320	INDOOR
GT3 EVAPORATIVE COOLER GT3 FUEL GAS PERFORMANCE HEATER	<u>5.1120</u> 5.1120	5.8320 5.8320	INDOOR INDOOR
GT3 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT3 GENERATOR	5.1120	5.8320	INDOOR
GT3 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT3 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT3 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT3 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT3 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT3 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT3 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT3 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT3 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT3 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT3 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT3 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT3 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT3 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT3 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
	5.1120	5.8320	INDOOR
	5.1120 5.1120	5.8320	
GT3 ROTOR AIR COOLER (KETTLE BOILER) GT3 SEE TRANSFORMER	5.1120	5.8320 5.8410	INDOOR INDOOR
GT3 SEE TRANSFORMER GT3 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT3 SEE/SFC PACKAGE GT3 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT3 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT3 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT3 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT3 WATER INJECTION SKID	5.1120	5.8320	INDOOR
HRSG3	5.1215	5.8320	INDOOR
HRSG3 AIG BLOWER A	5.1215	5.8320	INDOOR
HRSG3 AIG BLOWER B	5.1215	5.8320	INDOOR
HRSG3 BLOWDOWN TANK	5.1215	5.8320	INDOOR
HRSG3 CONDENSATE RECIRCULATION PUMP	5.1215	5.8320	INDOOR
HRSG3 COOLING BLOWER A	5.1215	5.8320	INDOOR
HRSG3 COOLING BLOWER B	5.1215	5.8320	INDOOR

GTG3 CEM3 ANALYZER CABINET 5.1216 5.8410 INDOOR STEAM TURBINE GENERATOR (STG) 5.1110 5.8320 INDOOR STG HPI/P TURBINE 5.1110 5.8320 INDOOR STG PI/PRINE 5.1110 5.8320 INDOOR STG DEARING LIFT OLL FILTER 1 5.1110 5.1320 INDOOR STG BEARING LIFT OLL FILTER 1 5.1110 5.1110 INDOOR STG BEARING LIFT OLL FILTER 2 5.1110 5.1110 INDOOR STG BEARING LIFT OLL FUMP 1 5.1110 INDOOR 5.1110 INDOOR STG BEARING LIFT OLL PUMP 2 5.1110 INDOOR 5.1110 INDOOR STG LUBE OLL COOLER 1 5.1110 INDOOR 5.1110 INDOOR STG LUBE OLL FOLDER 2 5.1110 5.8320 INDOOR STG LUBE OLL FULTER 2 5.1110 INDOOR STG LUBE OLL FULTER 2 5.1110 5.8320 INDOOR STG LUBE OLL FULTER 2 5.1110 INDOOR STG LUBE OLL FULTER 2 5.1110 5.8320 INDOOR STG LUBE OLL FULTER 2 5.1110 INDOOR<	Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GTG3 CEMS ANALYZER CABINET 5.1216 5.8410 INDOOR STEAM TURBINE GENERATOR (STG) 5.1110 5.8320 INDOOR STG HPIP TURBINE 5.1110 5.8320 INDOOR STG APTURBINE 5.1110 5.8320 INDOOR STG APTURBINE 5.1110 5.8320 INDOOR STG BEARING LIFT OLL FILTER 1 5.1110 5.1110 INDOOR STG BEARING LIFT OLL FILTER 2 5.1110 5.1110 INDOOR STG BEARING LIFT OLL FUMP 1 5.1110 5.1110 INDOOR STG BEARING LIFT OLL PUMP 2 5.1110 5.1110 INDOOR STG EMERGENCY LUBE OLL PUMP 2 5.1110 5.1100 INDOOR STG LUBE OLL COOLER 1 5.1110 5.8320 INDOOR STG LUBE OLL FILTER 2 5.1110 5.8320 INDOOR STG LUBE OLL FILTER 2 5.1110 5.8320 INDOOR STG LUBE OLL PUMP 1 5.1110 5.8320 INDOOR STG LUBE OLL PUMP 1 5.1110 5.8320 INDOOR STG LUBE OLL PUMP 1 5.1110	HRSG3 EXHAUST STACK	5.1215	5.8320	INDOOR
STEA HURBINE GENERATOR (STG) 5.1110 5.8320 INDOOR STG HOTBOX 5.1110 5.8320 INDOOR STG HOTBOX 5.1110 5.8320 INDOOR STG BEARING LIFT OIL FILTER 1 5.1110 5.1110 INDOOR STG BEARING LIFT OIL FILTER 2 5.1110 5.1110 INDOOR STG BEARING LIFT OIL FILTER 1 5.1110 5.1110 INDOOR STG BEARING LIFT OIL FUMP 1 5.1110 5.1110 INDOOR STG GENERGENCY LUBE OIL PUMP 1 5.1110 5.1110 INDOOR STG LUBE OIL COOLER 1 5.1110 5.8320 INDOOR STG LUBE OIL COOLER 2 5.1110 5.8320 INDOOR STG LUBE OIL FILTER 1 5.1110 5.8320 INDOOR STG LUBE OIL FULTER 2 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 1 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 2 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 2 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 2 5.1110	HRSG3 CEMS SHELTER ANALYZER CABINET	5.1215	5.8320	OUTDOOR
STG HOTBOX 5.1110 5.8320 INDOOR STG LP TURBINE 5.1110 5.8320 INDOOR STG LP TURBINE 5.1110 5.8320 INDOOR STG BEARING LIFT OLL FILTER 1 5.1110 5.1110 INDOOR STG BEARING LIFT OLL FILTER 2 5.1110 5.1110 INDOOR STG BEARING LIFT OLL PUMP 1 5.1110 5.1110 INDOOR STG BEARING LIFT OLL PUMP 2 5.1110 5.1110 INDOOR STG GUEGOLC COCLER 1 5.1110 INDOOR 5.8320 INDOOR STG LUBE OLL COCLER 1 5.1110 5.8320 INDOOR STG LUBE OLL FILTER 1 5.1110 5.8320 INDOOR STG LUBE OLL FILTER 2 5.1110 5.8320 INDOOR STG LUBE OLL PUMP 1 5.1110 5.8320 INDOOR STG LUBE OLL MOPOR EXHAUST OLL SEPARATOR 5.1110 5.8320 INDOOR STG CUBE OLL VAPOR EXHAUSTER 2 5.1110 5.8320 INDOOR STG GUE PUMP P 5.1110 5.8320 INDOOR STG GUAPOR EXHAUSTER 2 5.1110 5.8320 INDOOR		5.1215	5.8410	INDOOR
STG HP/IP TURBINE 5.1110 5.8320 INDOOR STG BEARING LIFT OL FILTER 1 5.1110 5.1110 INDOOR STG BEARING LIFT OL FILTER 2 5.1110 5.1110 INDOOR STG BEARING LIFT OL FILTER 2 5.1110 5.1110 INDOOR STG BEARING LIFT OL PUMP 1 5.1110 5.1110 INDOOR STG BEARING LIFT OL PUMP 2 5.1110 5.1110 INDOOR STG GUERGENCY LUBE OL PUMP 1 5.1110 NDOOR 5.1110 INDOOR STG LUBE OL COOLER 2 5.1110 5.1320 INDOOR STG LUBE OL COLER 1 5.1110 5.1320 INDOOR STG LUBE OL FILTER 1 5.1110 5.1320 INDOOR STG LUBE OL FILTER 1 5.1110 5.1320 INDOOR STG LUBE OL PUMP 1 5.1110 5.1320 INDOOR STG LUBE OL PUMP 2 5.1110 5.1320 INDOOR STG LUBE OL VAPOR EXHAUST OL SEPARATOR 5.1110 5.1320 INDOOR STG LUBE OL VAPOR EXHAUST OL SEPARATOR 5.1110 5.1320 INDOOR	STEAM TURBINE GENERATOR (STG)	5.1110	5.8320	INDOOR
STG LP TURBINE 5.1110 5.8320 INDOOR STG BEARING LIFT OLL FILTER 1 5.1110 5.1110 5.1110 INDOOR STG BEARING LIFT OLL FUTER 2 5.1110 5.1110 5.1110 INDOOR STG BEARING LIFT OLL PUMP 1 5.1110 5.1110 5.1110 INDOOR STG BEARING LIFT OLL PUMP 2 5.1110 5.1110 5.1110 INDOOR STG LOBE OLL COOLER 1 5.1110 5.8320 INDOOR STG LUBE OLL COLCER 1 5.1110 5.8320 INDOOR STG LUBE OLL PUMP 1 5.1110 5.8320 INDOOR STG UDE OLL VAPOR EXHAUSTER 1 5.1110 5.8320 INDOOR STG OLD PURFICATION UNIT 5.1110 5.8320 INDOOR STG OLD PURFICATION UNIT PUMP 5.1110 5.8320	STG HOTBOX	5.1110	5.8320	INDOOR
STG BEARING LIFT OIL FLITER 1 5.1110 5.1110 5.1110 5.1110 STG BEARING LIFT OIL FURP 2 5.1110 5.1110 5.1110 5.1110 5.1110 STG BEARING LIFT OIL PUMP 1 5.1110	STG HP/IP TURBINE	5.1110	5.8320	INDOOR
STG BEARING LIFT OIL FILTER 2 5.1110 5.1110 5.1110 5.1110 5.1110 STG BEARING LIFT OIL PUMP 1 5.1110 5.1110 5.1110 5.1110 5.1110 STG BEARING LIFT OIL PUMP 2 5.1110 5.1110 5.1110 5.1110 5.1110 STG LUBE OIL COLCER 1 5.1110 5.8320 INDOOR STG LUBE OIL FUTER 1 5.1110 5.8320 INDOOR STG LUBE OIL FUTER 2 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 1 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 2 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 2 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 2 5.1110 5.8320 INDOOR STG LUBE OIL VAPOR EXHAUST RL SEPARATOR 5.1110 5.8320 INDOOR STG OIL PURFICATION UNIT 5.1110 5.8320 INDOOR STG OIL PURFICATION UNIT 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 2 5.1110 5.8320 INDOOR STG GLAND STEAM EXH	STG LP TURBINE	5.1110	5.8320	INDOOR
STG BEARING LIFT OIL, PUMP 1 5.1110 5.1110 5.1110 NIDOOR STG BEARING LIFT OIL, PUMP 2 5.1110 5.1110 5.1110 NIDOOR STG LIBE OIL COLER 1 5.1110 5.1110 5.8320 INDOOR STG LIBE OIL COLER 2 5.1110 5.8320 INDOOR STG LIBE OIL FLITER 1 5.1110 5.8320 INDOOR STG LIBE OIL FLITER 2 5.1110 5.8320 INDOOR STG LIBE OIL FLITER 2 5.1110 5.8320 INDOOR STG LIBE OIL PUMP 2 5.1110 5.8320 INDOOR STG LIBE OIL PUMP 2 5.1110 5.8320 INDOOR STG LIDE OIL VAPOR EXHAUST R1 5.1110 5.8320 INDOOR STG OL PURFICATION UNIT S.1110 5.8320 INDOOR STG OL PURFICATION UNIT FLATER 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 1 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 1 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 1 5.1110 5.8320 <td< td=""><td>STG BEARING LIFT OIL FILTER 1</td><td>5.1110</td><td>5.1110</td><td>INDOOR</td></td<>	STG BEARING LIFT OIL FILTER 1	5.1110	5.1110	INDOOR
STG ERARING LIF OIL, PUMP 2 5.1110 5.1110 5.1110 INDOOR STG EMRECNCY LUBE OIL, PUMP 5.1110 5.1110 5.8320 INDOOR STG LUBE OIL, COLER 2 5.1110 5.8320 INDOOR STG LUBE OIL, COLER 2 5.1110 5.8320 INDOOR STG LUBE OIL, FILTER 1 5.1110 5.8320 INDOOR STG LUBE OIL FULTER 2 5.1110 5.8320 INDOOR STG LUBE OIL MOULE/TANK 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 1 5.1110 5.8320 INDOOR STG LUBE OIL PUMP 2 5.1110 5.8320 INDOOR STG LUBE OIL VAPOR EXHAUSTER 1 5.1110 5.8320 INDOOR STG OL PURIFICATION UNIT 5.1110 5.8320 INDOOR STG GLE VURIFICATION UNIT PUMP 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 2 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 2 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 2 5.1110 5.1110 1.110 <td>STG BEARING LIFT OIL FILTER 2</td> <td>5.1110</td> <td>5.1110</td> <td>INDOOR</td>	STG BEARING LIFT OIL FILTER 2	5.1110	5.1110	INDOOR
STG EMERGENCY LUBE OLE PUMP 5.1110 5.1110 5.1110 5.1110 5.1110 S.1320 STG LUBE OLL COLER 2 5.11110 5.8320 INDOOR STG LUBE OLL FLITER 1 5.1110 5.8320 INDOOR STG LUBE OLL FLITER 2 5.1110 5.8320 INDOOR STG LUBE OLL FLITER 2 5.1110 5.8320 INDOOR STG LUBE OLL PUMP 1 5.1110 5.8320 INDOOR STG LUBE OLL PUMP 2 5.1110 5.8320 INDOOR STG LUBE OLL VAPOR EXHAUST OL SEPARATOR 5.1110 5.8320 INDOOR STG UDE OLL VAPOR EXHAUSTER 1 5.1110 5.8320 INDOOR STG OL PURFICATION UNIT FATER 2 5.1110 5.8320 INDOOR STG OL PURFICATION UNIT FLATER 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 2 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 1 5.1110 5.8320 INDOOR STG GLAND STEAM EXHAUSTER 1 5.1110 5.1120 5.8320 INDOOR STG GLAND STEAM EXHAUSTER	STG BEARING LIFT OIL PUMP 1	5.1110	5.1110	INDOOR
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ELECTRIC FIRE PUMP 5.2150 5.8320 INDOOR				
JOCKEY FIRE PUMP AND ENCLOSURE FEED 5.2150 5.8320 INDOOR				
				OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
FUEL OIL FORWARDING PUMP B	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP D	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP B	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL HEATER A	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER B	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER C	5.2762	5.8320	OUTDOOR
	5.2762	5.8320	OUTDOOR
WASTEWATER SUMP PUMP 1A	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP 1B WASTEWATER SUMP PUMP 2A	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP 2A WASTEWATER SUMP PUMP 2B	5.2180 5.2180	5.8320 5.8320	OUTDOOR OUTDOOR
WASTEWATER SUMP PUMP 3A WASTEWATER SUMP PUMP 3B	5.2180 5.2180	5.8320 5.8320	OUTDOOR OUTDOOR
WASTEWATER SUMP PUMP 4	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP 5	5.2180	5.8320	OUTDOOR
DEEP WELL	5.8160	5.8160	OUTDOOR
WELL PUMP A	5.8160	5.8160	OUTDOOR
WELL PUMP B	5.8160	5.8160	OUTDOOR
UNIT 1 HRSG BLOWDOWN SUMP PUMP A	5.2180	5.8320	OUTDOOR
UNIT 1 HRSG BLOWDOWN SUMP PUMP B	5.2180	5.8320	OUTDOOR
UNIT 2 HRSG BLOWDOWN SUMP PUMP A	5.2180	5.8320	OUTDOOR
UNIT 2 HRSG BLOWDOWN SUMP PUMP B	5.2180	5.8320	OUTDOOR
UNIT 3 HRSG BLOWDOWN SUMP PUMP A	5.2180	5.8320	OUTDOOR
UNIT 3 HRSG BLOWDOWN SUMP PUMP B	5.2180	5.8320	OUTDOOR
CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
CLOSED COOLING WATER PUMP C	5.2190	5.8320	OUTDOOR
CLOSED COOLING WATER PUMP D	5.2190	5.8320	OUTDOOR
DEMINERALIZED WATER PUMP A	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP B	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP C	5.2190	5.8320	INDOOR
SERVICE WATER PUMP A	5.2190	5.8320	INDOOR
SERVICE WATER PUMP B	5.2190	5.8320	INDOOR
AIR-COOLED HEAT EXCHANGER (ACHE)	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 1	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 2	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 3	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 4	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 5	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 6 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 7	5.2215 5.2215	5.8320 5.8320	OUTDOOR OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 7 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 8	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 8	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 9 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 10	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 10	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 12	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 12	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 14	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 15	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 16	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 17	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 18	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 19	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 20	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 21	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 22	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 23	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 24	5.2215	5.8320	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 25	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 26	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 27	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 29	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 30	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 34	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36	5.2215	5.8320	OUTDOOR
	5.2230	5.8320	OUTDOOR
	5.2230	5.8320	OUTDOOR
ACC DUCT DRAIN POT PUMP B ACC STREET 1 COOLING FAN 1	5.2230	5.8320 5.8320	OUTDOOR OUTDOOR
ACC STREET 1 COOLING FAN 1 ACC STREET 1 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 1 COOLING FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 7 ACC STREET 1 FAN DRIVE BRAKE 8	5.2230	5.8320	OUTDOOR OUTDOOR
ACC STREET 1 FAN DRIVE BRAKE 8 ACC STREET 1 FAN DRIVE BRAKE 9	5.2230	5.8320 5.8320	OUTDOOR
ACC STREET PAN DRIVE BRAKE 9 ACC STREET 2 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 2 COOLING FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
ACC STREET 2 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 7	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 8	5.2230	5.8320	OUTDOOR
ACC STREET 2 FAN DRIVE BRAKE 9	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 3 COOLING FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN 7 ACC STREET 3 FAN 8	5.2230 5.2230	5.8320	OUTDOOR OUTDOOR
ACC STREET 3 FAN 8 ACC STREET 3 FAN 9	5.2230	5.8320 5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 1	5.2230	5.8320	
	5.2230	5.8320	OUTDOOR OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 2 ACC STREET 3 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 7	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 8	5.2230	5.8320	OUTDOOR
ACC STREET 3 FAN DRIVE BRAKE 9	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 4 COOLING FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 7	5.2230	5.8320	OUTDOOR
ACC STREET 4 FAN DRIVE BRAKE 8	5.2230	5.8320	OUTDOOR

ACC STREET 4 FAN DRIVE BRAKE 9 ACC STREET 5 COOLING FAN 1 ACC STREET 5 COOLING FAN 2 ACC STREET 5 COOLING FAN 3 ACC STREET 5 COOLING FAN 4 ACC STREET 5 COOLING FAN 5	5.2230 5.2230 5.2230 5.2230 5.2230 5.2230 5.2230 5.2230	5.8320 5.8320 5.8320 5.8320 5.8320	OUTDOOR OUTDOOR
ACC STREET 5 COOLING FAN 2 ACC STREET 5 COOLING FAN 3 ACC STREET 5 COOLING FAN 4 ACC STREET 5 COOLING FAN 5	5.2230 5.2230 5.2230 5.2230 5.2230	5.8320 5.8320	
ACC STREET 5 COOLING FAN 3 ACC STREET 5 COOLING FAN 4 ACC STREET 5 COOLING FAN 5	5.2230 5.2230 5.2230	5.8320	
ACC STREET 5 COOLING FAN 4 ACC STREET 5 COOLING FAN 5	5.2230 5.2230		OUTDOOR
ACC STREET 5 COOLING FAN 5	5.2230	F 0000	OUTDOOR
		5.8320	OUTDOOR
	5 2230	5.8320	OUTDOOR
ACC STREET 5 COOLING FAN 6		5.8320	OUTDOOR
ACC STREET 5 COOLING FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 5 COOLING FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 5 COOLING FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 2 ACC STREET 5 FAN 3	5.2230 5.2230	5.8320 5.8320	OUTDOOR OUTDOOR
ACC STREET 5 FAN 3 ACC STREET 5 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 7	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 8	5.2230	5.8320	OUTDOOR
ACC STREET 5 FAN DRIVE BRAKE 9	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 2	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 6 COOLING FAN 8 ACC STREET 6 COOLING FAN 9	5.2230 5.2230	5.8320 5.8320	OUTDOOR OUTDOOR
ACC STREET 6 COOLING FAN 9 ACC STREET 6 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 1	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 3	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 4	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 5	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 6	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 7	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 8	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN 9	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 1	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 2	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 3	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 4	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 5	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 6	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 7	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 8	5.2230	5.8320	OUTDOOR
ACC STREET 6 FAN DRIVE BRAKE 9	5.2230	5.8320	OUTDOOR
CONDENSATE STORAGE TANK	5.2230	5.8320	INDOOR
	5.2230	5.8320	INDOOR
	5.2230	5.8320	OUTDOOR
LIQUID RING VACUUM PUMP (LRVP) A	5.2230	5.8320	INDOOR
LRVP PLATE AND FRAME HEAT EXCHANGER A LRVP RECIRCULATION PUMP A	5.2230 5.2230	5.8320 5.8320	INDOOR INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
LRVP SEPARATOR TANK A	5.2230	5.8320	INDOOR
LIQUID RING VACUUM PUMP (LRVP) B	5.2230	5.8320	INDOOR
LRVP PLATE AND FRAME HEAT EXCHANGER B	5.2230	5.8320	INDOOR
LRVP RECIRCULATION PUMP B	5.2230	5.8320	INDOOR
LRVP SEPARATOR TANK B	5.2230	5.8320	INDOOR
POTABLE WATER WATER HEATER TANKS	5.2490	5.8320	INDOOR
AIR COMPRESSOR A	5.2710	5.8320	INDOOR
AIR COMPRESSOR B	5.2710	5.8320	INDOOR
AIR COMPRESSOR C	5.2710	5.8320	INDOOR
AIR DRYER A	5.2710	5.8320	INDOOR
	5.2710	5.8320	INDOOR
	5.2980	5.8320	INDOOR
WET AIR RECEIVER PULSE AIR RECEIVERS	5.2980 5.2980	5.8320 5.8320	INDOOR INDOOR
AQUEOUS AMMONIA STORAGE TANK	5.2980	5.8320	OUTDOOR
AQUEOUS AMMONIA STORAGE TANK AQUEOUS AMMONIA UNLOADING SKID	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA UNLUADING SKID AQUEOUS AMMONIA FORWARDING PUMP A	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA FORWARDING PUMP A	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA FORWARDING PUMP C	5.2750	5.8320	OUTDOOR
AQUEOUS AMMONIA FORWARDING PUMP D	5.2750	5.8320	OUTDOOR
FUEL GAS COALESCING FILTER SEPARATOR SKID	5.2762	5.8320	OUTDOOR
DRAINS TANK	5.2762	5.8320	OUTDOOR
FUEL GAS COALESCING FILTER SEPARATOR	5.2762	5.8320	OUTDOOR
FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
FUEL GAS CHROMATOGRAPH	5.6211	5.8320	OUTDOOR
AUXILIARY BOILER	5.2910	5.8320	INDOOR
AUXILIARY BOILER BLOWDOWN TANK	5.2910	5.8320	INDOOR
AUXILIARY BOILER DEAERATOR	5.2910	5.8320	INDOOR
AUXILIARY BOILER FD FAN	5.2910	5.8320	INDOOR
AUXILIARY BOILER FEEDWATER PUMP A	5.2910	5.8320	INDOOR
AUXILIARY BOILER FEEDWATER PUMP B	5.2910	5.8320	INDOOR
AUXILIARY STEAM ELECTRIC SUPERHEATER	5.2910	5.8320	INDOOR
WASH WATER DRAINS TANK 1	5.2940	5.8320	OUTDOOR
WASH WATER DRAINS TANK 2	5.2940	5.8320	OUTDOOR
WASH WATER DRAINS TANK 3	5.2940	5.8320	OUTDOOR
OIL WATER SEPARATOR	5.2940	5.8220	OUTDOOR
POWERHOUSE SANITARY LIFT STATION	5.2191	5.8220	OUTDOOR
WAREHOUSE/ADMIN SANITARY LIFT STATION	5.2191	5.8220	OUTDOOR
SANITARY TREAMENT FACILITY	5.3430	5.8320	OUTDOOR
DEMINERALIZED WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
SERVICE/FIRE WATER STORAGE TANK SERVICE/FIRE WATER STORAGE TANK HEATERS	5.8570 5.8570	5.8570 5.8570	OUTDOOR OUTDOOR
RAW WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK A	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK B	5.8570	5.8570	OUTDOOR
CLOSED COOLING WATER HEAD TANK	5.2980	5.8320	OUTDOOR
STG FLASH TANK	5.2980	5.8320	INDOOR
STG ATM DRAINS TANK	5.2980	5.8320	INDOOR
AMMONIA CHEMICAL SKID	5.3210	5.8320	INDOOR
AMMONIA FEED PUMP A	5.3210	5.8320	INDOOR
AMMONIA FEED PUMP B	5.3210	5.8320	INDOOR
AMMONIA FEED PUMP C	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED SKID	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED PUMP A	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED PUMP B	5.3210	5.8320	INDOOR
OXYGEN SCAVENGER FEED PUMP C	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEMICAL SKID	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEM FEED PUMP A	5.3210	5.8320	INDOOR
AUXILIARY BOILER CHEM FEED PUMP B	5.3210	5.8320	INDOOR
SODIUM HYPOCHLORITE SHELTER HOUSE	5.3210	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
SODIUM HYPOCHLORITE TRANSFER PUMP A	5.3210	5.8320	INDOOR
SODIUM HYPOCHLORITE TRANSFER PUMP B HRSG 1 HP/IP PHOSPHATE SKID	5.3210 5.3210	5.8320 5.8320	INDOOR INDOOR
HRSG 2 HP/IP PHOSPHATE SKID	5.3210	5.8320	INDOOR
HRSG 3 HP/IP PHOSPHATE SKID	5.3210	5.8320	INDOOR
REVERSE OSMOSIS (RO) TRAIN A	5.3220	5.8320	INDOOR
1ST PASS RO FILTER A	5.3220	5.8320	INDOOR
1ST PASS RO BOOSTER PUMP A	5.3220	5.8320	INDOOR
2ND PASS RO FILTER A	5.3220	5.8320	INDOOR
2ND PASS RO BOOSTER PUMP A	5.3220	5.8320	INDOOR
RO CARTRIDGE FILTER A	5.3220	5.8320	INDOOR
REVERSE OSMOSIS (RO) TRAIN B	5.3220	5.8320	INDOOR
1ST PASS RO FILTER B	5.3220	5.8320	INDOOR
1ST PASS RO BOOSTER PUMP B	5.3220	5.8320	INDOOR
2ND PASS RO FILTER B	5.3220	5.8320	INDOOR
2ND PASS RO BOOSTER PUMP B	5.3220	5.8320	INDOOR
RO CARTRIDGE FILTER B	5.3220	5.8320	INDOOR
CLEAN IN PLACE (CIP) SKID	5.3220	5.8320	INDOOR
UF/RO CIP CARTRIDGE FILTER	5.3220	5.8320	INDOOR
UF/RO CIP TANK	5.3220	5.8320	INDOOR
UF/RO CIP TANK HEATER	5.3220	5.8320	INDOOR
UF/RO CIP FORWARDING PUMP	5.3220	5.8320	INDOOR
RO RINSE PUMP SKID	5.3220	5.8320	INDOOR
RO SODIUM BISULFITE FEED SKID	5.3220	5.8320	INDOOR
RO ANTI-SCALANT FEED SKID	5.3220	5.8320	INDOOR
RO SODIUM HYDROXIDE FEED SKID	5.3220	5.8320	INDOOR
RO ACID FEED SKID	5.3220	5.8320	INDOOR
AUTOMATIC BACKWASH STRAINER & OIL/GREASE CARTRIDGE FILTER SKID	5.3210	5.8320	INDOOR
UF FILTER TRAIN A	5.3210	5.8320	INDOOR
UF FILTER TRAIN B	5.3210	5.8320	INDOOR
ULTRAFILTRATION (UF) BACKWASH PUMP SKID	5.3210	5.8320	INDOOR
UF CHEMICAL ENHANCED BACKWASH (CEB) SODIUM HYDROXIDE FEED SKID	5.3210	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE FEED SKID	5.3210	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
UF CEB CITRIC ACID FEED SKID	5.3210	5.8320	INDOOR
UF BACKWASH TANK	5.3210	5.8320	INDOOR
CALCITE FILTERS	5.3210	5.8320	INDOOR
SAMPLE ANALYSIS COOLER	5.3310	5.8320	INDOOR
SAMPLE ANALYSIS PANEL	5.3310	5.8320	INDOOR
GTG BUILDING CRANE	5.4210	5.8320	INDOOR
STG BUILDING CRANE	5.4210	5.8320	INDOOR
POWER BLOCK BUILDING AIR HANDLING UNITS (AHU)	5.8340	5.8340	INDOOR
POWER BLOCK BUILDING FANS	5.8340	5.8340	OUTDOOR
POWER BLOCK BUILDING GAS UNIT HEATERS (GUH)	5.8340	5.8340	INDOOR
POWER BLOCK BUILDING LOUVERS	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATERS (EUH)	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING FANS	5.8340	5.8340	OUTDOOR
WATER TREATMENT BUILDING LOUVERS	5.8340	5.8340	INDOOR
WATER TREATMENT BUILDING SELF-CONTAINED AIR-CONDITIONING UNITS (SAU)	5.8340	5.8340	OUTDOOR
ADMINISTRATION BUILDING AIR TERMINAL UNITS (VAV)	5.8340	5.8340	INDOOR
	5.8340	5.8340	OUTDOOR
ADMINISTRATION BUILDING ROOF TOP UNITS (RTU)	5.8340	5.8340	OUTDOOR
	5.8340	5.8340	OUTDOOR
MAINTENANCE SHOP GAS UNIT HEATER (GUH)	5.8340	5.8340	INDOOR
	5.8340	5.8340	INDOOR
MAINTENANCE SHOP/WAREHOUSE MAKE-UP AIR UNIT (MAU)	5.8340	5.8340	OUTDOOR
	5.8340	5.8340	OUTDOOR
WAREHOUSE GAS UNIT HEATER (GUH)	5.8340	5.8340	INDOOR
WAREHOUSE LOUVER	5.8340	5.8340	INDOOR
	5.5120	5.8410	OUTDOOR
GTG1 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
	5.5120	5.8410	OUTDOOR
GTG2 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG3 AUXILIARY TRANSFORMER GTG3 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5120 5.5110	5.8410 5.8410	OUTDOOR OUTDOOR
STG GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110		OUTDOOR
GTG1 GENERATOR BREAKER	5.5210	5.8410 5.8410	OUTDOOR
GTG2 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG3 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
STG GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
	0.0210	5.0410	INDOOR/
GTG1 ISOPHASE BUS DUCT	5.5220	5.8410	OUTDOOR
GTG2 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
GTG3 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
STG ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
STANDBY DIESEL GENERATOR	5.5240	5.8410	OUTDOOR
4160V SWGR A	5.5310	5.8410	INDOOR
4160V SWGR B	5.5310	5.8410	INDOOR
4160V SWGR C	5.5310	5.8410	INDOOR
ACC MCC 1 (ACC PCM)	5.5310	5.8410	INDOOR
ACC MCC 2 (ACC PCM)	5.5310	5.8410	INDOOR
	5.5310	5.8410	INDOOR
ACC MCC 9 (ACC PCM)	5.5310	5.8410	INDOOR
ACC STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
ACC STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
ACC STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP MCC 1	5.5310	5.8410	INDOOR
BOP MCC 2	5.5310	5.8410	INDOOR
BOP MCC 3	5.5310	5.8410	INDOOR
BOP MCC 4	5.5310	5.8410	INDOOR
BOP MCC 5	5.5310	5.8410	INDOOR
BOP MCC 6	5.5310	5.8410	INDOOR
ESS 480V SWGR A	5.5310	5.8410	INDOOR
ESS STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR B	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR C	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR D	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP 480V SWGR E	5.5310	5.8410	INDOOR
BOP STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
STG 480V SWGR	5.5310	5.8410	INDOOR
STG STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
STG 480V SWGR	5.5310	5.8410	INDOOR
STG STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
WT 480V SWGR A	5.5310	5.8410	INDOOR
WT STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
WT 480V SWGR B	5.5310	5.8410	INDOOR
WT STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG1 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG1 MCC	5.5310	5.8410	INDOOR
GTG2 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG2 MCC	5.5310	5.8410	INDOOR
GTG3 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG3 MCC	5.5310	5.8410	INDOOR
HRSG1 MCC	5.5310	5.8410	INDOOR
HRSG2 MCC	5.5310	5.8410	INDOOR
HRSG3 MCC	5.5310	5.8410	INDOOR
STG MCC	5.5310	5.8410	INDOOR
UPS AND 125VDC SYSTEM	5.5310	5.8410	INDOOR
WATER TREATMENT MCC	5.5310	5.8410	INDOOR
GT1 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT2 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT3 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
STG GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
FUEL GAS DEWPOINT HEATER A	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER B	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER C	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER D	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER E	5.2762	5.8320	OUTDOOR
FUEL GAS REGULATING/METERING SKID A	5.2762	5.8320	OUTDOOR
FUEL GAS REGULATING/METERING SKID B	5.2762	5.8320	OUTDOOR
NITROGEN BOTTLE RACK	OWNER	5.8320	OUTDOOR
BULK CO2 STORAGE SKID	OWNER	5.8320	OUTDOOR
UF SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
UF SODIUM HYDROXIDE TOTE	OWNER	5.8320	INDOOR
UF CITRIC ACID TOTE	OWNER	5.8320	INDOOR
DCS	5.6110	5.8410	INDOOR
COMMON GT WATER WASH SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - #1	5.1120	5.8320	INDOOR
GT1 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT1 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT1 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
	5.1120	5.8410	INDOOR
GT1 ELECTRICAL PACKAGE HVAC UNIT #1 GT1 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120 5.1120	5.8410	INDOOR
	5.1120	5.8410	INDOOR INDOOR
GT1 EMERGENCY DC LUBE OIL PUMP GT1 ENCLOSURE	5.1120	5.8320 5.8320	INDOOR
GT1 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT1 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT1 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT1 GENERATOR	5.1120	5.8320	INDOOR
GT1 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT1 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT1 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT1 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT1 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT1 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT1 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT1 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT1 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT1 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT1 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT1 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT1 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT1 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT1 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT1 WATER INJECTION SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - #2	5.1120	5.8320	INDOOR
GT2 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT2 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT2 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT2 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT2 ENCLOSURE	5.1120	5.8320	INDOOR
GT2 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT2 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT2 FUEL OIL SKID	5.1120	5.8320	INDOOR INDOOR
GT2 GENERATOR GT2 GENERATOR SPACE HEATER	5.1120 5.1120	5.8320 5.8320	INDOOR
GT2 HIGH SPEED TURNING GEAR	5.1120	5.8320 5.8320	INDOOR
GT2 HYDRAULIC SKID GT2 KNOCKOUT DRUM	5.1120	5.8320	INDOOR INDOOR
GT2 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT2 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT2 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT2 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT2 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT2 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT2 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT2 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT2 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT2 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT2 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT2 WATER INJECTION SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - #3	5.1120	5.8320	INDOOR
GT3 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT3 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT3 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT3 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT3 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT3 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT3 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT3 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT3 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT3 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT3 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT3 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT3 ENCLOSURE	5.1120	5.8320	INDOOR
GT3 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT3 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT3 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT3 GENERATOR	5.1120	5.8320	INDOOR
GT3 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT3 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT3 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT3 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT3 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT3 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT3 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT3 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT3 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT3 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT3 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT3 LV PANEL BOARD TRANSFORMER GT3 MAIN FUEL GAS FILTER	5.1120 5.1120	5.8410 5.8320	INDOOR INDOOR
GT3 MAIN FOEL GAS FILTER GT3 OIL SKID & COOLER			INDOOR
GT3 DIL SKID & COOLER GT3 PILOT FLOW DIVIDER	5.1120 5.1120	5.8320 5.8320	INDOOR
GT3 PILOT FLOW DIVIDER GT3 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT3 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	
		5.8320	INDOOR INDOOR
GT3 ROTOR AIR COOLER (KETTLE BOILER) GT3 SEE TRANSFORMER	5.1120 5.1120	5.8320	INDOOR
	0.1120	J.04 IU	INDOOK

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT3 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT3 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT3 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT3 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT3 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT3 WATER INJECTION SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - #4	5.1120	5.8320	INDOOR
GT4 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT4 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT4 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT4 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT4 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT4 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT4 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT4 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT4 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT4 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT4 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT4 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT4 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
	5.1120	5.8410	INDOOR
GT4 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT4 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT4 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT4 ENCLOSURE	5.1120	5.8320	INDOOR
GT4 EVAPORATIVE COOLER GT4 FUEL GAS PERFORMANCE HEATER	5.1120 5.1120	5.8320 5.8320	INDOOR INDOOR
GT4 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT4 GENERATOR	5.1120	5.8320	INDOOR
GT4 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT4 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT4 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT4 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT4 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT4 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT4 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT4 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT4 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT4 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT4 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT4 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT4 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT4 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT4 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT4 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT4 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT4 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT4 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT4 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT4 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT4 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT4 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT4 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT4 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT4 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT4 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT4 SFC TRANSFORMER	5.1120	5.8410	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT4 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT4 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT4 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT4 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT4 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT4 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT4 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT4 WATER INJECTION SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - #5	5.1120	5.8320	INDOOR
GT5 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT5 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT5 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT5 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT5 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT5 CONTROL OIL FAN GT5 CONTROL OIL FILTER #1	<u>5.1120</u> 5.1120	5.8320 5.8320	INDOOR INDOOR
GT5 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT5 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT5 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT5 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT5 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT5 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT5 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT5 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT5 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT5 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT5 ENCLOSURE	5.1120	5.8320	INDOOR
GT5 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT5 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT5 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT5 GENERATOR	5.1120	5.8320	INDOOR
GT5 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT5 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT5 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT5 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT5 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT5 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT5 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT5 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT5 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT5 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT5 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT5 LUBE OIL PUMP #2 GT5 LUBE OIL RESERVOIR	5.1120	5.8320	
GT5 LUBE OIL RESERVOIR GT5 LUBE OIL RESERVOIR HEATER #1	5.1120 5.1120	5.8320 5.8320	INDOOR INDOOR
GT5 LUBE OIL RESERVOIR HEATER #1 GT5 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT5 LUBE OIL RESERVOIR HEATER #2 GT5 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT5 LUBE OIL RESERVOIR HEATER #3 GT5 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT5 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT5 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT5 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT5 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT5 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT5 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT5 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT5 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT5 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT5 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT5 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT5 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT5 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT5 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT5 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT5 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT5 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT5 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT5 WATER INJECTION SKID	5.1120	5.8320	INDOOR
DIESEL FIRE PUMP	5.2150	5.8320	INDOOR
ELECTRIC FIRE PUMP	5.2150	5.8320	INDOOR
JOCKEY FIRE PUMP AND ENCLOSURE FEED	5.2150	5.8320	INDOOR
FUEL OIL FORWARDING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP B	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP D FUEL OIL FORWARDING PUMP E	5.2190 5.2190	5.8320 5.8320	OUTDOOR OUTDOOR
FUEL OIL FORWARDING PUMP F	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL TRANSFER PUMP	5.2190	5.8320	OUTDOOR
FUEL OIL HEATER A	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER B	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER C	5.2762	5.8320	OUTDOOR
WASTEWATER SUMP PUMP A	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP B	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP C	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP D	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP E	5.2180	5.8320	OUTDOOR
CLARIFIED WATER TRANSFER PUMP A	5.2180	5.8320	INDOOR
CLARIFIED WATER TRANSFER PUMP B	5.2180	5.8320	INDOOR
GTG1 CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
GTG1 CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
GTG2 CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
GTG2 CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
GTG3 CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
GTG3 CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
GTG4 CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
GTG4 CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
GTG5 CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
GTG5 CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP B	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP C	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP D	5.2190	5.8320	INDOOR INDOOR
DEMINERALIZED WATER PUMP E DEMINERALIZED WATER PUMP F	5.2190 5.2190	5.8320 5.8320	INDOOR
SERVICE WATER PUMP A	5.2190	5.8320	INDOOR
SERVICE WATER PUMP A	5.2190	5.8320	INDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) #1	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 1	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 1	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 3	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 4	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 5	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 6	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 7	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 8	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 9	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 10	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 11	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 12	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) #2	5.2215	5.8320	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 13	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 14	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 15	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 16	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 17	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 18	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 19	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 20	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 21	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 22	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 23	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 24	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) #3 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 25	5.2215 5.2215	5.8320 5.8320	OUTDOOR
	5.2215	5.8320	OUTDOOR OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 26 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 27	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 27 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 29	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 29 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 30	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 34	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) #4	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 37	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 38	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 39	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 40	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 41	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 42	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 43	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 44	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 45	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 46	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 47	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 48	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) #5	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 49	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 50	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 51 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 52	5.2215 5.2215	5.8320 5.8320	OUTDOOR OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 52 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 53	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 55	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 55	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 55	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 50	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 58	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 59	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 60	5.2215	5.8320	OUTDOOR
POTABLE WATER WATER HEATER TANK	5.2490	5.8320	INDOOR
AIR COMPRESSOR A	5.2710	5.8320	INDOOR
AIR COMPRESSOR B	5.2710	5.8320	INDOOR
AIR DRYER A	5.2710	5.8320	INDOOR
AIR DRYER B	5.2710	5.8320	INDOOR
DRY AIR RECEIVER	5.2980	5.8320	INDOOR
WET AIR RECEIVER	5.2980	5.8320	INDOOR
PULSE AIR RECEIVER #1	5.2980	5.8320	INDOOR
PULSE AIR RECEIVER #2	5.2980	5.8320	INDOOR
PULSE AIR RECEIVER #3	5.2980	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
PULSE AIR RECEIVER #4	5.2980	5.8320	INDOOR
PULSE AIR RECEIVER #5	5.2980	5.8320	INDOOR
FUEL GAS COALESCING FILTER SEPARATOR SKID	5.2762	5.8320	OUTDOOR
DRAINS TANK	5.2762	5.8320	OUTDOOR
FUEL GAS COALESCING FILTER SEPARATOR	5.2762	5.8320	OUTDOOR
GTG1 FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
GTG2 FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
GTG3 FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
GTG4 FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
GTG5 FUEL GAS DRAINS TANK	5.2762	5.8320	INDOOR
GTG1 WASH WATER DRAINS TANK	5.2940	5.8220	OUTDOOR
GTG2 WASH WATER DRAINS TANK	5.2940	5.8220	OUTDOOR
GTG3 WASH WATER DRAINS TANK	5.2940	5.8220	OUTDOOR
GTG4 WASH WATER DRAINS TANK	5.2940	5.8220	OUTDOOR
GTG5 WASH WATER DRAINS TANK	5.2940	5.8220	OUTDOOR
OIL WATER SEPAERATOR #1	5.2940	5.8220	OUTDOOR
OIL WATER SEPAERATOR #2	5.2940	5.8220	OUTDOOR
SANITARY LIFT STATION #1	5.2191	5.8220	OUTDOOR
SANITARY LIFT STATION #2	5.2191	5.8220	OUTDOOR
SANITARY TREAMENT FACILITY	5.3430	5.8320	OUTDOOR
DEMINERALIZED WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
SERVICE/FIRE WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
SERVICE/FIRE WATER STORAGE TANK HEATERS	5.8570	5.8570	OUTDOOR
CLARIFIED WATER STORAGE TANK	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK 1	5.8570	5.8570	OUTDOOR
FUEL OIL STORAGE TANK 2	5.8570	5.8570	OUTDOOR
CLOSED COOLING EXPANSION TANK 1	5.2980	5.8320	OUTDOOR
CLOSED COOLING EXPANSION TANK 2	5.2980	5.8320	OUTDOOR
CLOSED COOLING EXPANSION TANK 3	5.2980	5.8320	OUTDOOR
CLOSED COOLING EXPANSION TANK 4	5.2980	5.8320	OUTDOOR
CLOSED COOLING EXPANSION TANK 5	5.2980	5.8320	OUTDOOR
AUTOMATIC BACKWASH STRAINER & OIL/GREASE CARTRIDGE FILTER SKID	5.3210	5.8320	INDOOR
UF FILTER TRAIN A	5.3210	5.8320	INDOOR
UF FILTER TRAIN B	5.3210	5.8320	INDOOR
ULTRAFILTRATION (UF) BACKWASH PUMP SKID	5.3210	5.8320	INDOOR
UF CHEMICAL ENHANCED BACKWASH (CEB) SODIUM HYDROXIDE FEED SKID	5.3210	5.8320	INDOOR
UF CEB SODIUM HYPOCHLORITE FEED SKID	5.3210	5.8320	INDOOR
UF CEB CITRIC ACID FEED SKID	5.3210	5.8320	INDOOR
UF BACKWASH TANK	5.3210	5.8320	INDOOR
SAMPLE ANALYSIS COOLER	5.3310	5.8320	INDOOR
SAMPLE ANALYSIS PANEL	5.3310	5.8320	INDOOR
GAS TURBINE ENCLOSURE AIR HANDLING UNITS (AHU)	5.4410	5.8340	INDOOR
GAS TURBINE ENCLOSURE FANS	5.4410	5.8340	OUTDOOR
GAS TURBINE ENCLOSURE GAS UNIT HEATERS (GUH)	5.4410	5.8340	INDOOR
GAS TURBINE ENCLOSURE LOUVERS	5.4410	5.8340	INDOOR
ADMIN/WAREHOUSE BUILDING ELECTRIC UNIT HEATERS (EUH)	5.4410	5.8340	INDOOR
ADMIN/WAREHOUSE BUILDING FANS	5.4410	5.8340	OUTDOOR
ADMIN/WAREHOUSE BUILDING LOUVERS	5.4410	5.8340	INDOOR
ADMIN/WAREHOUSE BUILDING SELF-CONTAINED AIR-CONDITIONING UNITS (SAU)	5.4410	5.8340	OUTDOOR
WATER TREATMENT BUILDING ELECTRIC UNIT HEATERS (EUH)	5.4410	5.8340	INDOOR
WATER TREATMENT BUILDING FANS	5.4410	5.8340	OUTDOOR
WATER TREATMENT BUILDING LOUVERS	5.4410	5.8340	INDOOR
WATER TREATMENT BUILDING SELF-CONTAINED AIR-CONDITIONING UNITS (SAU)	5.4410	5.8340	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GTG1 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG1 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG2 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG2 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG3 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG3 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG4 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG4 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG5 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG5 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG1 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG2 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG3 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG4 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG5 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
	0.0210		INDOOR/
GTG1 ISOPHASE BUS DUCT	5.5220	5.8410	OUTDOOR INDOOR/
GTG2 ISOPHASE BUS DUCT	5.5220	5.8410	OUTDOOR
GTG3 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
GTG4 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
GTG5 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
STANDBY DIESEL GENERATOR	5.5240	5.8410	OUTDOOR
4160V SWGR 4	5.5310	5.8410	INDOOR
4160V SWGR 5	5.5310	5.8410	INDOOR
ACHE MCC 1	5.5310	5.8410	INDOOR
ACHE MCC 2	5.5310	5.8410	INDOOR
ACHE MCC 3	5.5310	5.8410	INDOOR
ACHE MCC 4	5.5310	5.8410	INDOOR
ACHE MCC 5	5.5310	5.8410	INDOOR
BOP MCC 1	5.5310	5.8410	INDOOR
BOP MCC 2	5.5310	5.8410	INDOOR
BOP MCC 3	5.5310	5.8410	INDOOR
BOP MCC 4	5.5310	5.8410	INDOOR
BOP1 480V SWGR	5.5310	5.8410	INDOOR
BOP1 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP2 480V SWGR	5.5310	5.8410	INDOOR
BOP2 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
ESSENTIAL 480V SWGR	5.5310	5.8410	INDOOR
ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG1 480V SWGR	5.5310	5.8410	INDOOR
GTG1 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG1 MCC	5.5310	5.8410	INDOOR
GTG1 STATION SERVICE TRANSFORMER GTG2 480V SWGR	5.5310	5.8410	
GTG2 480V SWGR GTG2 ESSENTIAL MCC	5.5310	5.8410	INDOOR
	5.5310	5.8410	INDOOR
	5.5310	5.8410	INDOOR
GTG2 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
GTG3 480V SWGR	5.5310	5.8410	INDOOR
GTG3 ESSENTIAL MCC GTG3 MCC	<u>5.5310</u> 5.5310	5.8410 5.8410	INDOOR INDOOR
GTG3 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
GTG4 480V SWGR	5.5310	5.8410	INDOOR
GTG4 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG4 MCC	5.5310	5.8410	INDOOR
GTG4 STATION SERVICE TRANSFORMER		5.8410	OUTDOOR
GTG5 480V SWGR	<u>5.5310</u> 5.5310	5.8410	INDOOR
GTG5 ESSENTIAL MCC	5.5310	5.8410	INDOOR
	0.0010	J.04 IU	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GTG5 MCC	5.5310	5.8410	INDOOR
GTG5 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP UPS AND 125VDC SYSTEM	5.5310	5.8410	INDOOR
WATER TREATMENT MCC	5.5310	5.8410	INDOOR
WATER TREATMENT STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
GT1 CEMS SHELTER	5.6310	5.8320	OUTDOOR
GT2 CEMS SHELTER	5.6310	5.8320	OUTDOOR
GT3 CEMS SHELTER	5.6310	5.8320	OUTDOOR
GT4 CEMS SHELTER	5.6310	5.8320	OUTDOOR
GT5 CEMS SHELTER	5.6310	5.8320	OUTDOOR
GT1 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT2 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT3 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT4 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT5 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
FUEL GAS DEWPOINT HEATER A	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER B	5.2762	5.8320	OUTDOOR
FUEL GAS DEWPOINT HEATER C	5.2762	5.8320	OUTDOOR
FUEL GAS REGULATING/METERING SKID A	5.2762	5.8320	OUTDOOR
FUEL GAS REGULATING/METERING SKID B	5.2762	5.8320	OUTDOOR
NITROGEN BOTTLE RACK	OWNER	5.8320	OUTDOOR
BULK CO2 STORAGE SKID	OWNER	5.8320	OUTDOOR
SODIUM HYPOCHLORITE TOTE	OWNER	5.8320	INDOOR
DCS	5.6110	5.8410	INDOOR
COMMON GT WATER WASH SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - #1	5.1120	5.8320	INDOOR
GT1 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT1 BATTERY CHARGER GT1 BEARING LIFT OIL PUMP	5.1120 5.1120	5.8410 5.8320	INDOOR INDOOR
GT1 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT1 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT1 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT1 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT1 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT1 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT1 ENCLOSURE	5.1120	5.8320	INDOOR
GT1 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT1 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT1 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT1 GENERATOR	5.1120	5.8320	INDOOR
GT1 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT1 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT1 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT1 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT1 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT1 LUBE OIL FILTER #1 GT1 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR INDOOR
GT1 LUBE OIL PILTER #2 GT1 LUBE OIL PUMP #1	5.1120 5.1120	5.8320 5.8320	INDOOR
GT1 LUBE OIL PUMP #1 GT1 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR GT1 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT1 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT1 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT1 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT1 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT1 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT1 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT1 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT1 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT1 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT1 SFC TRANSFORMER	5.1120	5.8410	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT1 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT1 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT1 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT1 WATER INJECTION SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - #2	5.1120	5.8320	INDOOR
GT2 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT2 BATTERY CHARGER GT2 BEARING LIFT OIL PUMP	5.1120 5.1120	5.8410 5.8320	INDOOR INDOOR
GT2 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT2 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT2 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT2 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT2 ENCLOSURE	5.1120	5.8320	INDOOR
GT2 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT2 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT2 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT2 GENERATOR	5.1120	5.8320	INDOOR
GT2 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT2 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT2 HYDRAULIC SKID GT2 KNOCKOUT DRUM	<u>5.1120</u> 5.1120	5.8320	INDOOR INDOOR
GT2 KNOCKOUT DROM GT2 LOW SPEED TURNING GEAR	5.1120	5.8320 5.8320	INDOOR
GT2 LOW SPEED TORNING GEAR GT2 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT2 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL PUMP #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT2 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT2 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT2 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT2 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT2 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT2 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT2 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT2 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT2 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT2 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
	5.1120	5.8410	INDOOR
	5.1120	5.8320	INDOOR
GT2 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR

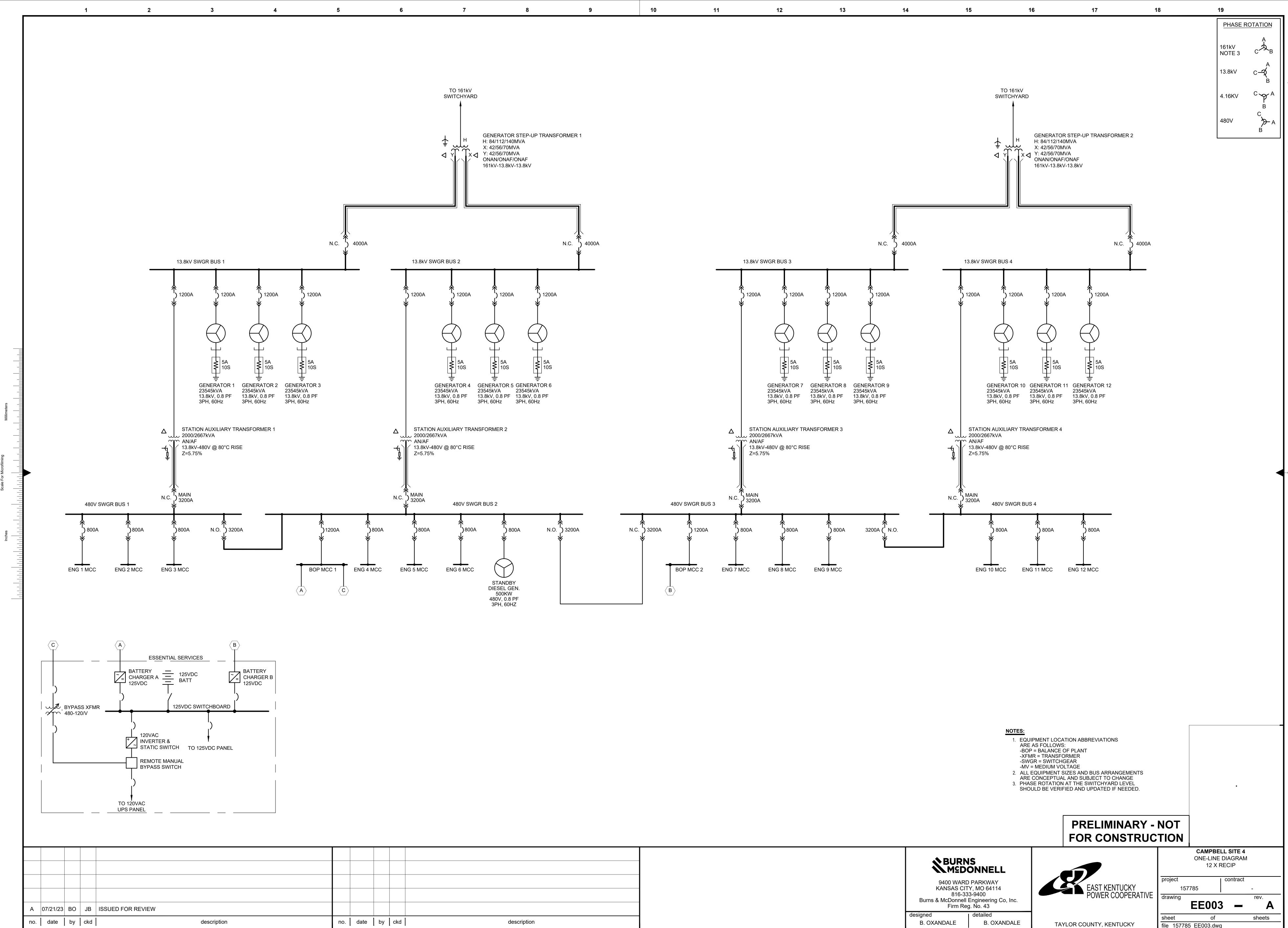
Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT2 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT2 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT2 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT2 WATER INJECTION SKID	5.1120	5.8320	INDOOR
GAS TURBINE GENERATOR - #3	5.1120	5.8320	INDOOR
GT3 AIR INLET FILTER	5.1120	5.8320	OUTDOOR
GT3 BATTERY CHARGER	5.1120	5.8410	INDOOR
GT3 BEARING LIFT OIL PUMP	5.1120	5.8320	INDOOR
GT3 COLLECTOR BLOWER #1	5.1120	5.8320	INDOOR
GT3 COLLECTOR BLOWER #2	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FAN	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FILTER #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL FILTER #2 GT3 CONTROL OIL PUMP #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL PUMP #1 GT3 CONTROL OIL PUMP #2	5.1120 5.1120	5.8320 5.8320	INDOOR INDOOR
GT3 CONTROL OIL POMP #2 GT3 CONTROL OIL RESERVOIR	5.1120	5.8320	INDOOR
GT3 CONTROL OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT3 CONTROL OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT3 ELECTRICAL PACKAGE	5.1120	5.8410	INDOOR
GT3 ELECTRICAL PACKAGE HVAC UNIT #1	5.1120	5.8410	INDOOR
GT3 ELECTRICAL PACKAGE HVAC UNIT #2	5.1120	5.8410	INDOOR
GT3 EMERGENCY DC LUBE OIL PUMP	5.1120	5.8320	INDOOR
GT3 ENCLOSURE	5.1120	5.8320	INDOOR
GT3 EVAPORATIVE COOLER	5.1120	5.8320	INDOOR
GT3 FUEL GAS PERFORMANCE HEATER	5.1120	5.8320	INDOOR
GT3 FUEL OIL SKID	5.1120	5.8320	INDOOR
GT3 GENERATOR	5.1120	5.8320	INDOOR
GT3 GENERATOR SPACE HEATER	5.1120	5.8320	INDOOR
GT3 HIGH SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT3 HYDRAULIC SKID	5.1120	5.8320	INDOOR
GT3 KNOCKOUT DRUM	5.1120	5.8320	INDOOR
GT3 LOW SPEED TURNING GEAR	5.1120	5.8320	INDOOR
GT3 LP CO2 FIRE PROTECTION SKID	5.1120	5.8320	INDOOR
GT3 LUBE OIL COOLER #1 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT3 LUBE OIL COOLER #2 (PLATE & FRAME HX)	5.1120	5.8320	INDOOR
GT3 LUBE OIL FILTER #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL FILTER #2	5.1120	5.8320	INDOOR
GT3 LUBE OIL PUMP #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL PUMP #2 GT3 LUBE OIL RESERVOIR	5.1120 5.1120	5.8320 5.8320	INDOOR INDOOR
GT3 LUBE OIL RESERVOIR GT3 LUBE OIL RESERVOIR HEATER #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR HEATER #2	5.1120	5.8320	INDOOR
GT3 LUBE OIL RESERVOIR HEATER #3	5.1120	5.8320	INDOOR
GT3 LUBE OIL VAPOR EXTRACTOR #1	5.1120	5.8320	INDOOR
GT3 LUBE OIL VAPOR EXTRACTOR #2	5.1120	5.8320	INDOOR
GT3 LV PANEL BOARD TRANSFORMER	5.1120	5.8410	INDOOR
GT3 MAIN FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT3 OIL SKID & COOLER	5.1120	5.8320	INDOOR
GT3 PILOT FLOW DIVIDER	5.1120	5.8320	INDOOR
GT3 PILOT FUEL GAS FILTER	5.1120	5.8320	INDOOR
GT3 PURGE/INSTRUMENT AIR COMPRESSOR	5.1120	5.8320	INDOOR
GT3 ROTOR AIR COOLER (KETTLE BOILER)	5.1120	5.8320	INDOOR
GT3 SEE TRANSFORMER	5.1120	5.8410	INDOOR
GT3 SEE/SFC PACKAGE	5.1120	5.8410	INDOOR
GT3 SFC TRANSFORMER	5.1120	5.8410	INDOOR
GT3 STAGE A FLOW DIVIDER	5.1120	5.8320	INDOOR
GT3 STAGE B FLOW DIVIDER	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #1	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #2	5.1120	5.8320	INDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
GT3 TURBINE VENT FAN #3	5.1120	5.8320	INDOOR
GT3 TURBINE VENT FAN #4	5.1120	5.8320	INDOOR
GT3 VT SURGE/SFC SWITCH CUBICLE	5.1120	5.8410	INDOOR
GT3 WATER INJECTION SKID	5.1120	5.8320	INDOOR
DIESEL FIRE PUMP	5.2150	5.8320	INDOOR
ELECTRIC FIRE PUMP	5.2150	5.8320	INDOOR
JOCKEY FIRE PUMP AND ENCLOSURE FEED	5.2150	5.8320	INDOOR
FUEL OIL FORWARDING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP B	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL FORWARDING PUMP D FUEL OIL UNLOADING PUMP A	5.2190 5.2190	5.8320 5.8320	OUTDOOR OUTDOOR
FUEL OIL UNLOADING PUMP A	5.2190	5.8320	OUTDOOR
FUEL OIL UNLOADING PUMP C	5.2190	5.8320	OUTDOOR
FUEL OIL TRANSFER PUMP	5.2190	5.8320	OUTDOOR
FUEL OIL HEATER A	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER B	5.2762	5.8320	OUTDOOR
FUEL OIL HEATER C	5.2762	5.8320	OUTDOOR
WASTEWATER SUMP PUMP A	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP B	5.2180	5.8320	OUTDOOR
WASTEWATER SUMP PUMP C	5.2180	5.8320	OUTDOOR
DEEP WELL	5.8160	5.8160	OUTDOOR
WELL PUMP A	5.8160	5.8160	OUTDOOR
WELL PUMP B	5.8160	5.8160	OUTDOOR
GTG1 CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
GTG1 CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
GTG2 CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
GTG2 CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
GTG3 CLOSED COOLING WATER PUMP A	5.2190	5.8320	OUTDOOR
GTG3 CLOSED COOLING WATER PUMP B	5.2190	5.8320	OUTDOOR
DEMINERALIZED WATER PUMP A	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP B DEMINERALIZED WATER PUMP C	5.2190	5.8320	INDOOR
	5.2190	5.8320	INDOOR
DEMINERALIZED WATER PUMP D SERVICE WATER PUMP A	5.2190 5.2190	5.8320 5.8320	INDOOR INDOOR
SERVICE WATER PUMP A	5.2190	5.8320	INDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) #1	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 1	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 2	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 3	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 4	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 5	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 6	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 7	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 8	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 9	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 10	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 11	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 12	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) #2	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 13	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 14	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 15	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 16	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 17	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 18 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 19	5.2215 5.2215	5.8320 5.8320	OUTDOOR OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 19 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 20	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 20 AIR-COOLED HEAT EXCHANGER (ACHE) FAN 21	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 22	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 23	5.2215	5.8320	OUTDOOR
	0.2210	0.0020	0010001

AIR-COOLED HEAT EXCHANGER (ACHE) FAN 24 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 25 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 25 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 26 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 26 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 29 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32 5.215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2216 5.8320 OUTDOOR AIR-CONED HEAT EXCHANGER (ACHE) FAN 33 5.2216 5.8320 OUTDOOR AIR-CONED HEAT EXCHANGER (ACHE) FAN 33 5.2216 5.8320 OUTDOOR AIR-CONED HEAT EXCHANGER (ACHE) FAN 34 5.2216 5.8320 <th>Equipment Name/Description</th> <th>Supply Contract</th> <th>Install Contract</th> <th>Indoor / Outdoor</th>	Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 26 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 26 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 26 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 30 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2716 5.8320 INDOOR AIR-COMERSOR A 5.2710 5.8320 INDOOR AIR COMPRESOR B 5.2710 5.8320 INDOOR	AIR-COOLED HEAT EXCHANGER (ACHE) FAN 24	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 27 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 27 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 30 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2216 5.8320 OUTDOOR AIR-CONCLED HEAT EXCHANGER (ACHE) FAN 36 5.2216 5.8320 OUTDOOR AIR-CONCLED HEAT EXCHANGER (ACHE) FAN 36 5.2216 5.8320 INDOOR AIR COWPRESOR B 5.2710 5.8320 INDOOR AIR COWPRESOR B 5.2710 5.8320 INDOOR <tr< td=""><td></td><td>5.2215</td><td>5.8320</td><td>OUTDOOR</td></tr<>		5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 30 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2215 5.3320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2216 5.3320 INDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2710 5.3320 INDOOR AIR COMPRESSOR A 5.2710 5.3320 INDOOR AIR CORPRESSOR B 5.2710 5.3320 INDOOR AIR CORPRESSOR B 5.2710 5.3320 INDOOR PULS AIR RE	AIR-COOLED HEAT EXCHANGER (ACHE) FAN 25		5.8320	OUTDOOR
AIR.COOLED HEAT EXCHANGER (ACHE) FAN 28 5.2215 5.3320 OUTDOOR AIR.COOLED HEAT EXCHANGER (ACHE) FAN 29 5.2215 5.3320 OUTDOOR AIR.COOLED HEAT EXCHANGER (ACHE) FAN 30 5.2215 5.3320 OUTDOOR AIR.COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.3320 OUTDOOR AIR.COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.3320 OUTDOOR AIR.COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.3320 OUTDOOR AIR.COOLED HEAT EXCHANGER (ACHE) FAN 35 5.2215 5.3320 OUTDOOR AIR.COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2215 5.3320 OUTDOOR AIR.COMERESOR B 5.2710 5.3320 INDOOR AIR COMPRESOR B 5.2710 5.3320 INDOOR AIR COMPRESOR B 5.2710 5.3320 INDOOR AIR COMPRESOR B 5.2710 5.3320 INDOOR PULSE AIR RECEIVER B' 5.2980 5.3320 INDOOR PULSE AIR RECEIVER B' 5.2980 5.3320 INDOOR PULSE AIR RECEIVER B' 5.2980 5.3320	AIR-COOLED HEAT EXCHANGER (ACHE) FAN 26	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 30 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 34 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2216 5.8320 INDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2710 5.8320 INDOOR AIR COMPRESSOR A 5.2710 5.8320 INDOOR AIR COMPRESSOR B 5.2710 5.8320 INDOOR AIR DAYER A 5.2780 5.8320 INDOOR AIR RECEIVER 5.2880 5.8320 INDOOR PULSE AIR RECEIVER #2 5.2880 5.8320 INDOOR PULSE AIR RECEIVER #2 5.2880	AIR-COOLED HEAT EXCHANGER (ACHE) FAN 27	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 30 5,2215 5,8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32 5,2215 5,8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32 5,2215 5,8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5,2215 5,8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5,2215 5,8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5,2215 5,8320 INDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5,2216 5,8320 INDOOR AIR-COMPRESOR A 5,2710 5,8320 INDOOR AIR COMPRESOR B 5,2710 5,8320 INDOOR AIR COMPRESOR B 5,2710 5,8320 INDOOR AIR CORFYER B 5,2780 5,8320 INDOOR DRY AIR RECEIVER 5,2880 5,8320 INDOOR PULSE AIR RECEIVER #1 5,2880 5,8320 INDOOR PULSE AIR RECEIVER #1 5,2880 5,8320 INDOOR PULSE AIR RECEIVER #1 5,2880 5,8320 INDOOR	AIR-COOLED HEAT EXCHANGER (ACHE) FAN 28	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 32 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 33 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2216 5.8320 INDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2710 5.8320 INDOOR AIR COMPRESSOR B 5.2710 5.8320 INDOOR AIR COMPRESSOR B 5.2710 5.8320 INDOOR AIR COMPRESSOR B 5.2710 5.8320 INDOOR AIR CONFRESSOR B 5.2710 5.8320 INDOOR AIR CONFRESSOR B 5.2710 5.8320 INDOOR AIR CONFRESSOR B 5.2710 5.8320 INDOOR VET AIR RECEIVER #1 5.2890 5.8320 INDOOR PULSS AIR RECEIVER #1 5.2890 5.8320 INDOOR <				
AIR-COQLED HEAT EXCHANGER ACHE/ FAN 32 5.2215 5.8320 OUTDOOR AIR-COQLED HEAT EXCHANGER ACHE/ FAN 33 5.2215 5.8320 OUTDOOR AIR-COQLED HEAT EXCHANGER ACHE/ FAN 34 5.2215 5.8320 OUTDOOR AIR-COQLED HEAT EXCHANGER ACHE/ FAN 35 5.2215 5.8320 OUTDOOR AIR-COQLED HEAT EXCHANGER ACHE/ FAN 36 5.2215 5.8320 INDOOR AIR COMPRESSOR A 5.2710 5.8320 INDOOR AIR COMPRESSOR B 5.2710 5.8320 INDOOR AIR CORFYER B 5.2800 5.8320 INDOOR DIVET AIR RECEIVER 5.2800 5.8320 INDOOR PULSE AIR RECEIVER #1 5.2800 5.8320 INDOOR PULSE AIR RECEIVER #2 5.2800 5.8320 INDOOR PULSE AIR RECEIVER #3 5.2800 5.8320 INDOOR PULSE AIR RECEIVER #				
ARE-COOLED HEAT EXCHANGER (ACHE) FAN 33 6 2215 5 8320 OUTDOOR AIRE-COOLED HEAT EXCHANGER (ACHE) FAN 35 5 2215 5 8320 OUTDOOR AIRE-COOLED HEAT EXCHANGER (ACHE) FAN 35 5 2215 5 8320 OUTDOOR AIRE-COOLED HEAT EXCHANGER (ACHE) FAN 36 5 2215 5 8320 INDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5 2210 5 8320 INDOOR AIR COMPRESSOR A 5 2710 5 8320 INDOOR AIR COMPRESSOR B 5 2710 5 8320 INDOOR AIR DEVER B 5 2710 5 8320 INDOOR AIR DEVER B 5 2710 5 8320 INDOOR AIR DEVER B 5 2780 5 8320 INDOOR DRY AIR RECEIVER 5 2880 5 8320 INDOOR PULS AIR RECEIVER #1 5 2880 5 8320 INDOOR PULS AIR RECEIVER #2 5 2880 5 8320 INDOOR PULS AIR RECEIVER #3 5 2880 5 2880 5 2880 INDOOR PULS AIR RECEIVER #3 5 2880 5 28820 INDOOR INDOOR <td>AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31</td> <td>5.2215</td> <td>5.8320</td> <td>OUTDOOR</td>	AIR-COOLED HEAT EXCHANGER (ACHE) FAN 31	5.2215	5.8320	OUTDOOR
AIR-COOLED HEAT EXCHANGER (ACHE) FAN 35 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2215 5.8320 OUTDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2219 5.8320 INDOOR AIR-COOLED HEAT EXCHANGER (ACHE) FAN 36 5.2710 5.8320 INDOOR AIR COMPRESSOR B 5.2710 5.8320 INDOOR AIR COLEVER A 5.2980 5.8320 INDOOR PULSE AIR RECEIVER #1 5.2980 5.8320 INDOOR PULSE AIR RECEIVER #2 5.2980 5.8320 INDOOR PULSE AIR RECEIVER #1 5.2980 5.8320 INDOOR PULSE AIR RECEIVER #2 5.2980 5.8320 INDOOR FUEL GAS COALESCING FILTER SEPARATOR SKID 5.2762 5.8320 INDOOR FUEL GAS COA				
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ARCCOOLED HEAT EXCHANGER (ACHE) FAN 36 6 2215 5.8320 OUTDOOR DOTABLE WATER WATER HEATER TANK 5.2490 5.8320 INDOOR AIR COMPRESSOR A 5.2710 5.8320 INDOOR AIR COMPRESSOR B 5.2710 5.8320 INDOOR AIR COMPRESSOR B 5.2710 5.8320 INDOOR AIR OPYER A 5.2710 5.8320 INDOOR AIR DRYER B 5.2780 5.8320 INDOOR DUSS AIR RECEIVER 5.2980 5.8320 INDOOR PULSE AIR RECEIVER #1 5.2980 5.8320 INDOOR PULSE AIR RECEIVER #2 5.2980 5.8320 INDOOR PULSE AIR RECEIVER #2 5.2980 5.8320 INDOOR PULSE AIR RECEIVER #2 5.2980 S.8320 INDOOR FUEL GAS COALESCING FILTER SEPARATOR SKID 5.2762 5.8320 OUTDOOR FUEL GAS COALESCING FILTER SEPARATOR SKID 5.2762 5.8320 INDOOR GT01 FUEL GAS DRAINS TANK 5.2762 5.8320 INDOOR GT03 FUEL GAS DRAINS TANK				
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	WATER TREATMENT BUILDING FANS	5.4410	5.8340	OUTDOOR

Equipment Name/Description	Supply Contract	Install Contract	Indoor / Outdoor
WATER TREATMENT BUILDING LOUVERS	5.4410	5.8340	INDOOR
WATER TREATMENT BUILDING SELF-CONTAINED AIR-CONDITIONING UNITS (SAU)	5.4410	5.8340	OUTDOOR
GTG1 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG1 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG2 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG2 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG3 AUXILIARY TRANSFORMER	5.5120	5.8410	OUTDOOR
GTG3 GENERATOR STEP-UP (GSU) TRANSFORMER	5.5110	5.8410	OUTDOOR
GTG1 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG2 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
GTG3 GENERATOR BREAKER	5.5210	5.8410	OUTDOOR
			INDOOR/
GTG1 ISOPHASE BUS DUCT	5.5220	5.8410	OUTDOOR
GTG2 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
GTG3 ISOPHASE BUS DUCT	5.5220	5.8410	INDOOR/ OUTDOOR
STANDBY DIESEL GENERATOR	5.5240	5.8410	OUTDOOR
4160V SWGR 1	5.5310	5.8410	INDOOR
4160V SWGR 2	5.5310	5.8410	INDOOR
4160V SWGR 3	5.5310	5.8410	INDOOR
ACHE MCC 1	5.5310	5.8410	INDOOR
ACHE MCC 2	5.5310	5.8410	INDOOR
ACHE MCC 3	5.5310	5.8410	INDOOR
BOP MCC 1	5.5310	5.8410	INDOOR
BOP MCC 2	5.5310	5.8410	INDOOR
BOP MCC 3	5.5310	5.8410	INDOOR
BOP1 480V SWGR	5.5310	5.8410	INDOOR
BOP1 4007 SWGK BOP1 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP2 480V SWGR	5.5310	5.8410	INDOOR
BOP2 4007 SWGR BOP2 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
ESSENTIAL 480V SWGR	5.5310	5.8410	INDOOR
ESSENTIAL 400V SWGR	5.5310	5.8410	INDOOR
GTG1 480V SWGR	5.5310	5.8410	INDOOR
GTG1 ESSENTIAL MCC	5.5310	5.8410	INDOOR
	5.5310	5.8410	INDOOR
GTG1 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
GTG2 480V SWGR	5.5310	5.8410	INDOOR
GTG2 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG2 MCC	5.5310	5.8410	INDOOR
GTG2 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
GTG3 480V SWGR	5.5310	5.8410	INDOOR
GTG3 ESSENTIAL MCC	5.5310	5.8410	INDOOR
GTG3 MCC	5.5310	5.8410	INDOOR
GTG3 STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
BOP UPS AND 125VDC SYSTEM	5.5310	5.8410	INDOOR
WATER TREATMENT MCC	5.5310	5.8410	INDOOR
WATER TREATMENT STATION SERVICE TRANSFORMER	5.5310	5.8410	OUTDOOR
GT1 CEMS SHELTER	5.6310	5.8320	OUTDOOR
GT2 CEMS SHELTER	5.6310	5.8320	OUTDOOR
GT3 CEMS SHELTER	5.6310	5.8320	OUTDOOR
GT1 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT2 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR
GT3 GSU TRANSFORMER DELUGE VALVE SHED	5.8360	5.8360	OUTDOOR

APPENDIX E – ONE-LINE DIAGRAMS

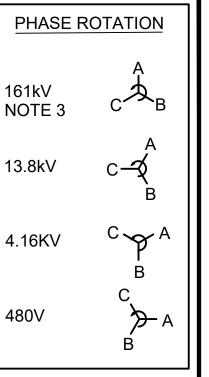


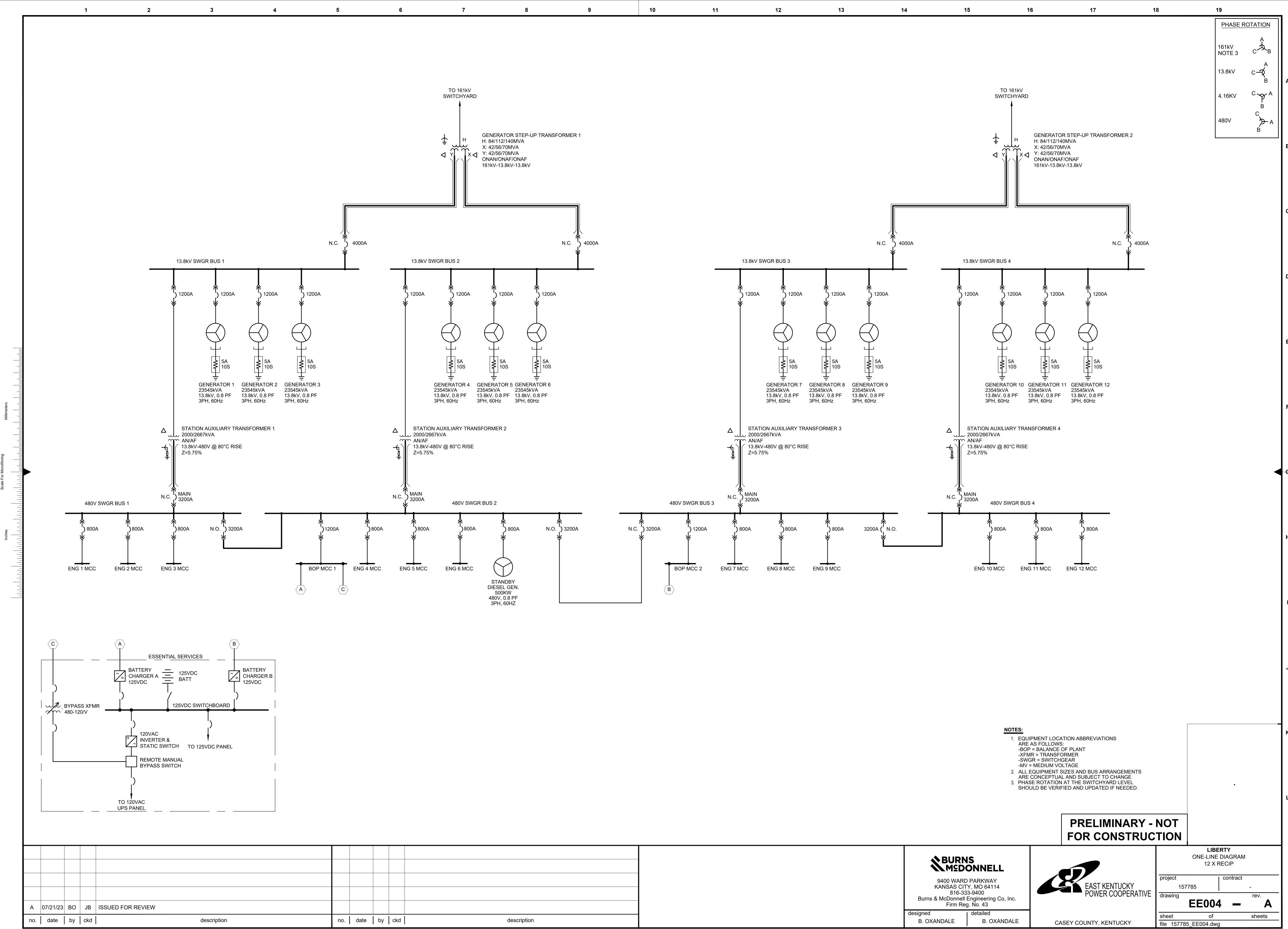
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B. OXANDALE

TAYLOR COUNTY, KENTUCKY

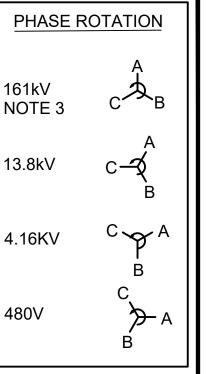


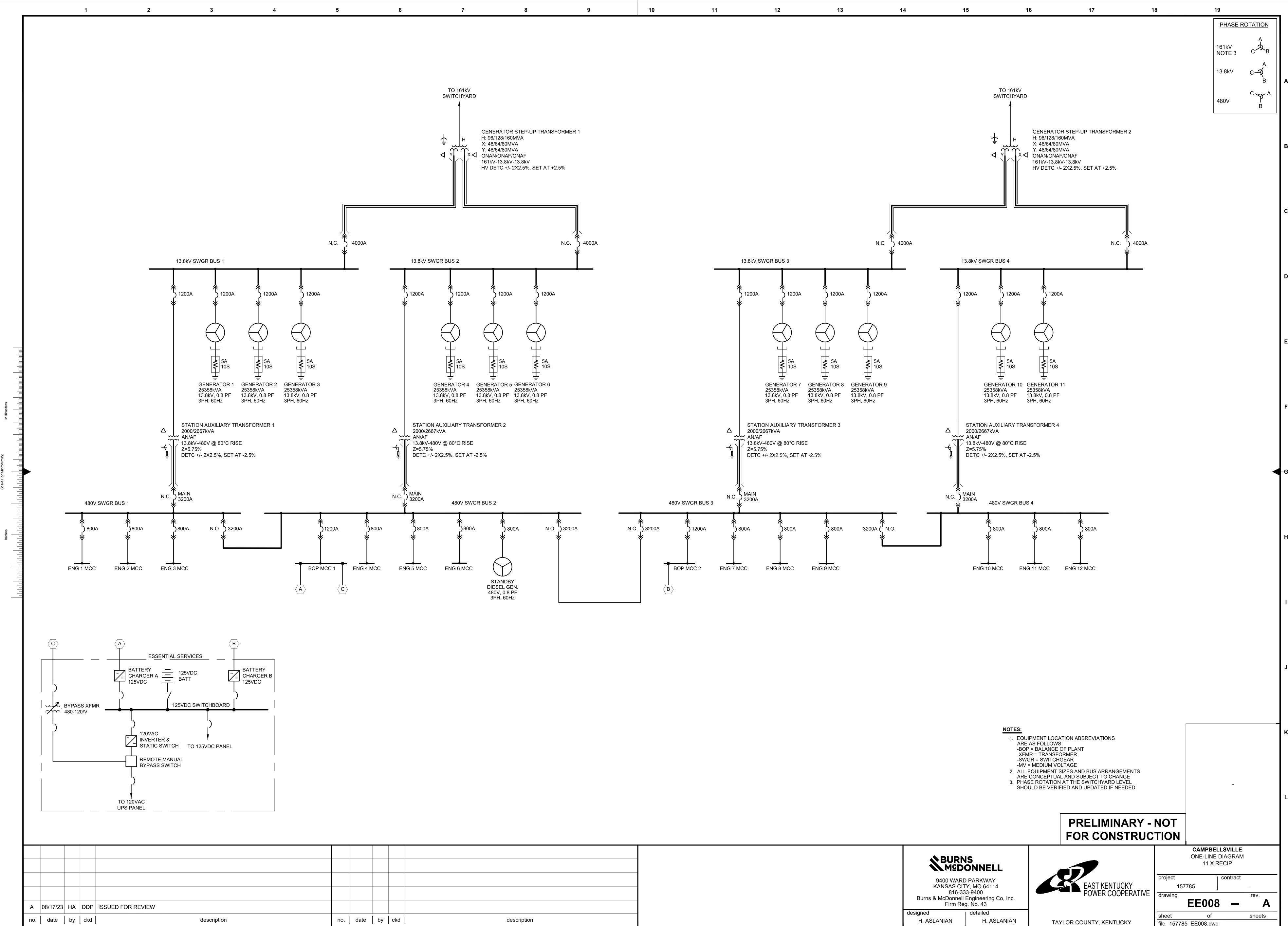




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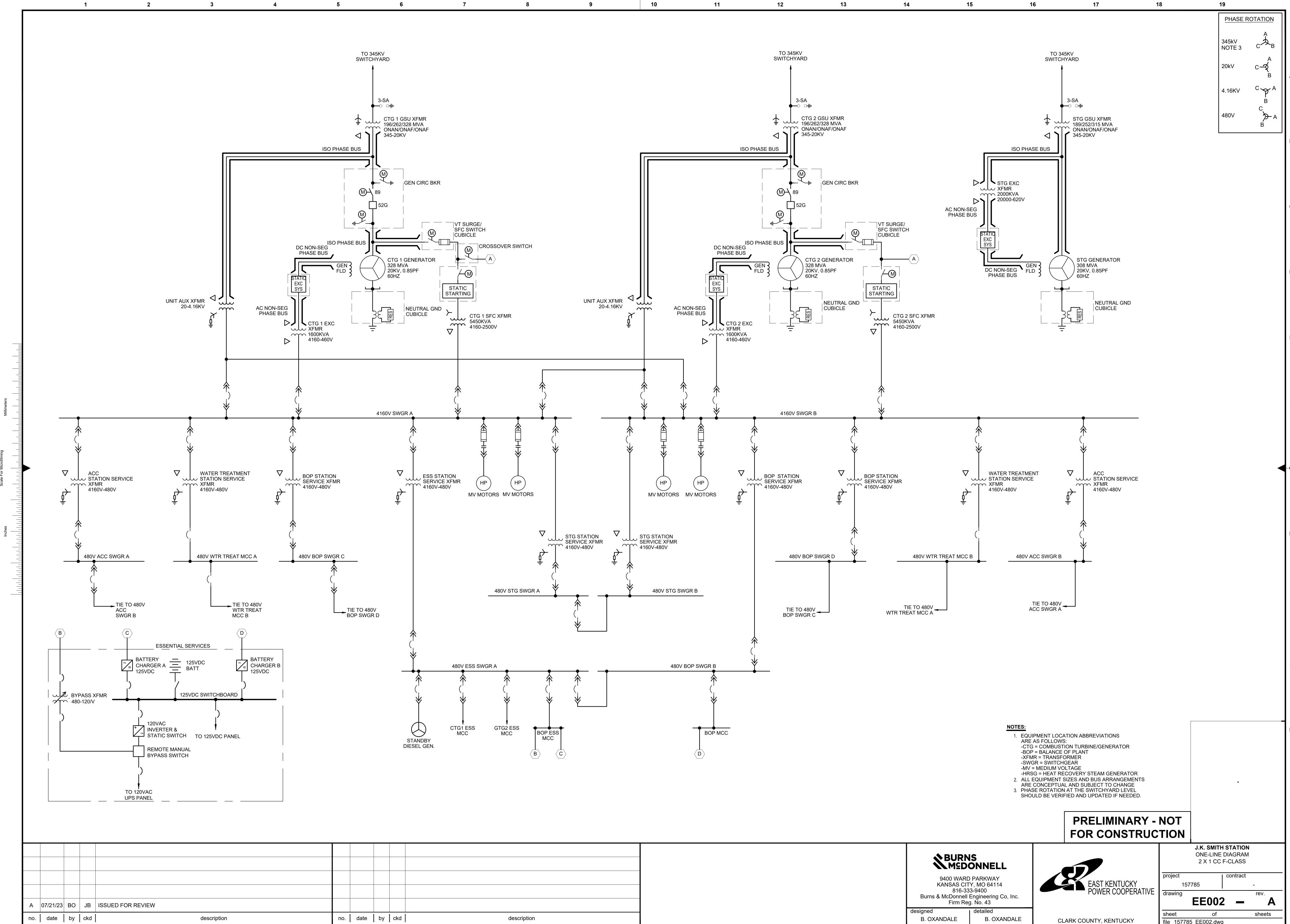






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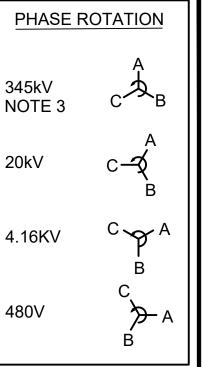
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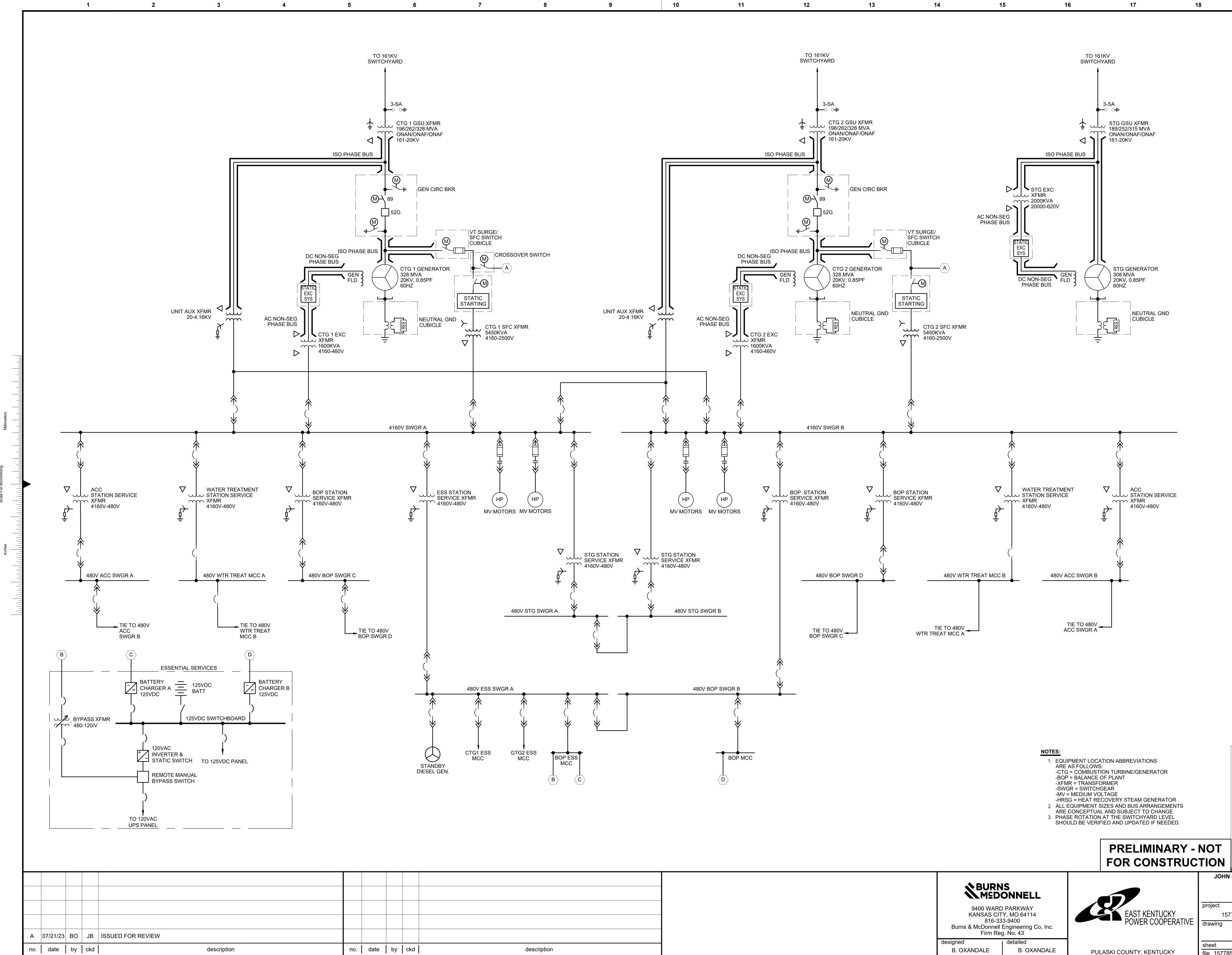
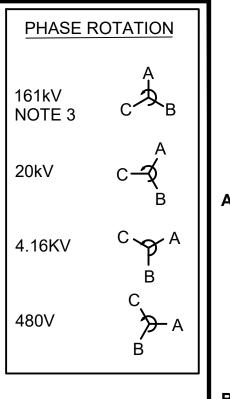
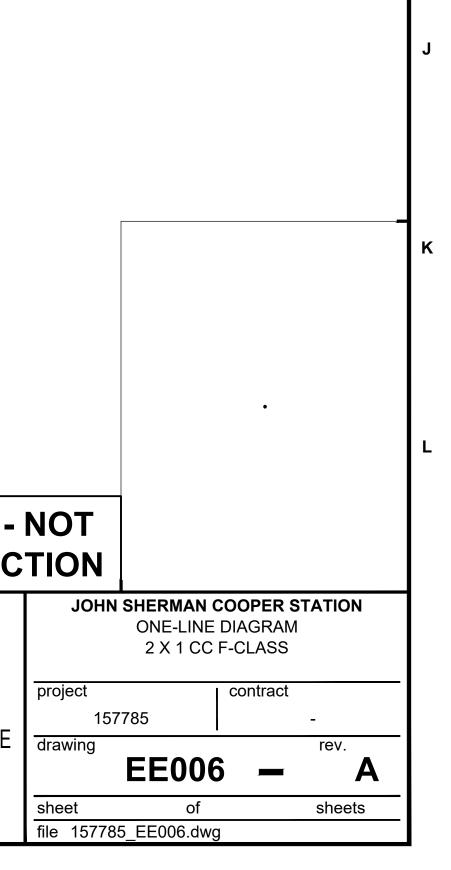


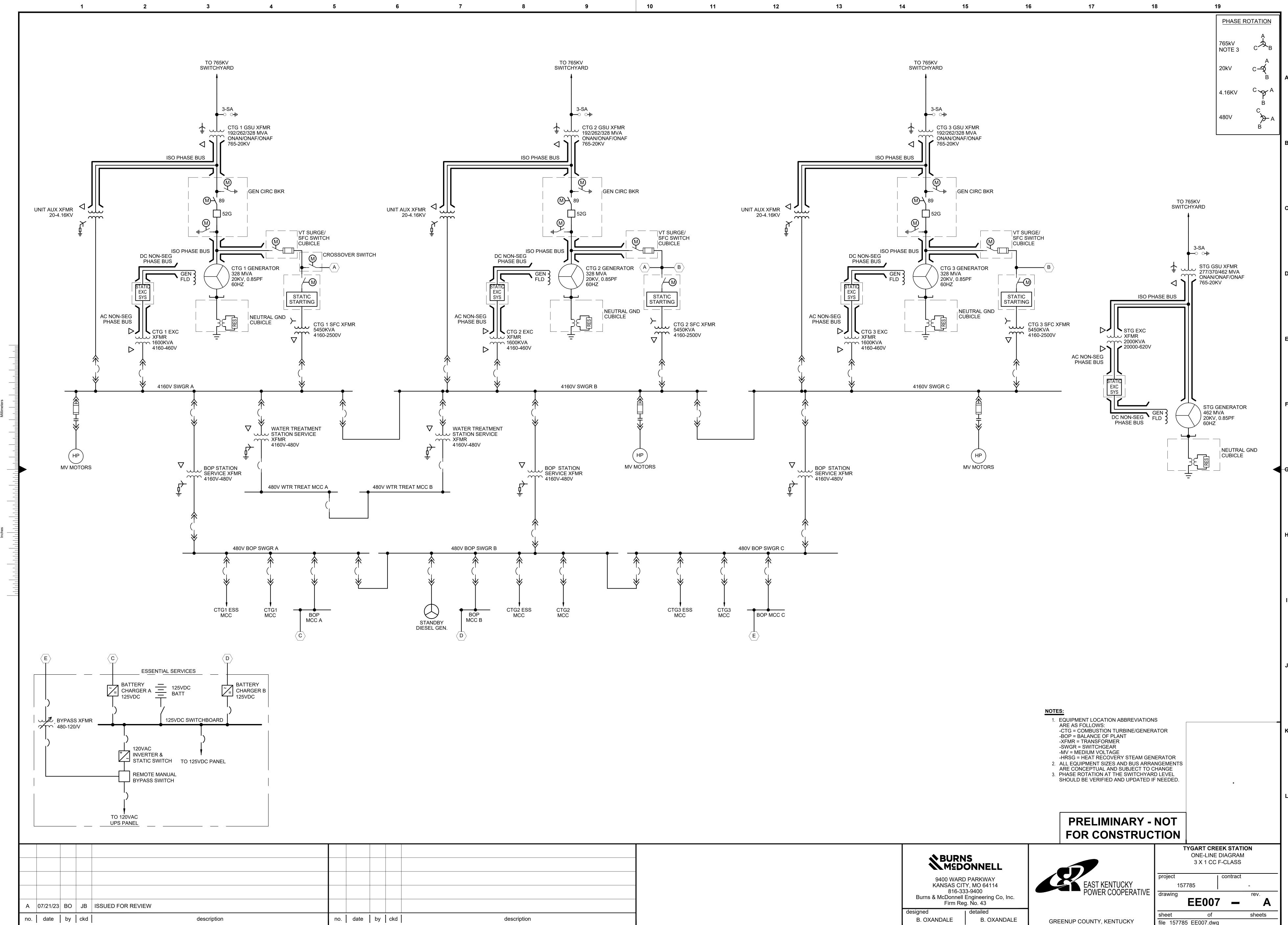
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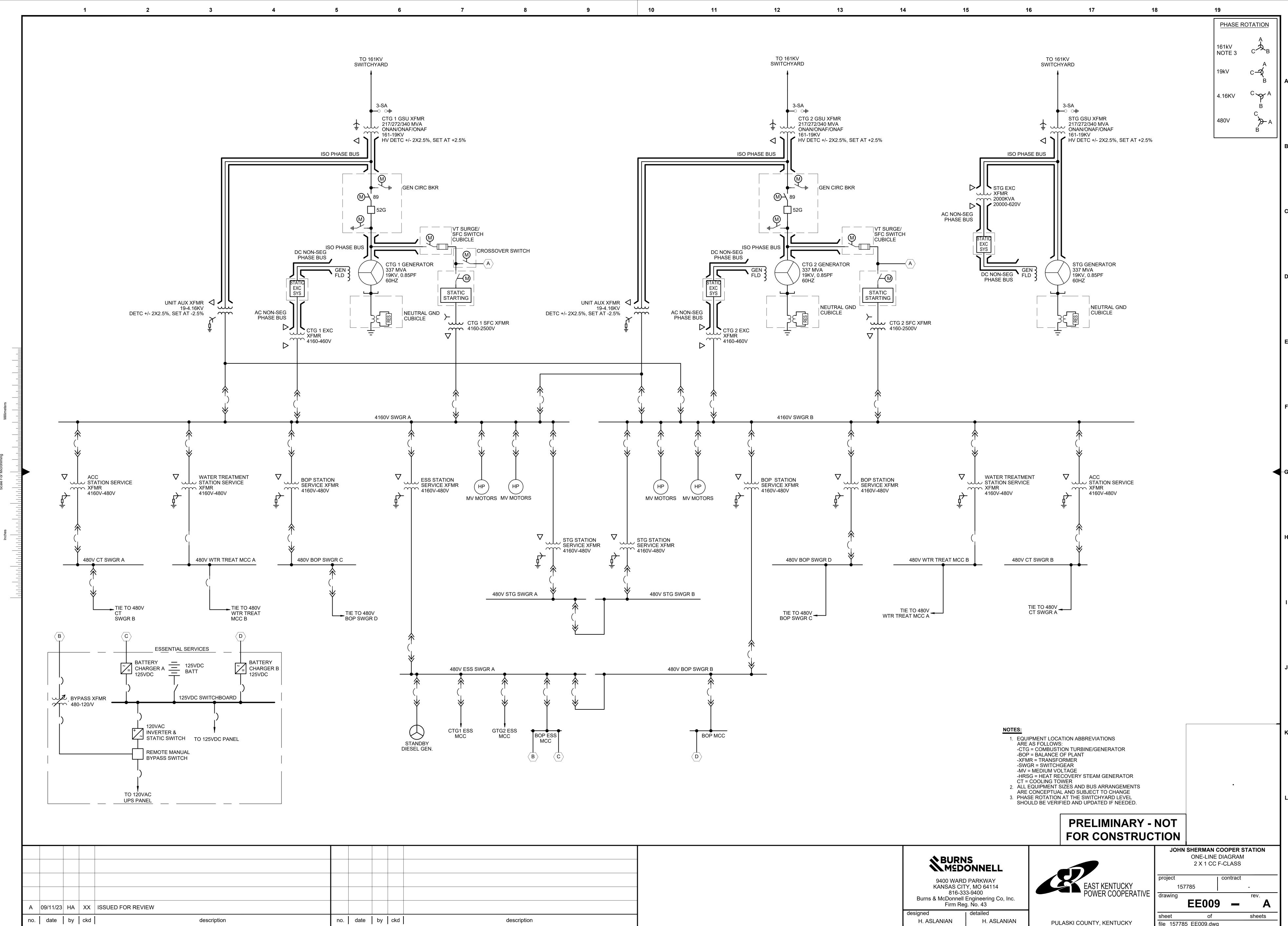








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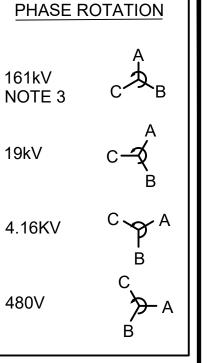


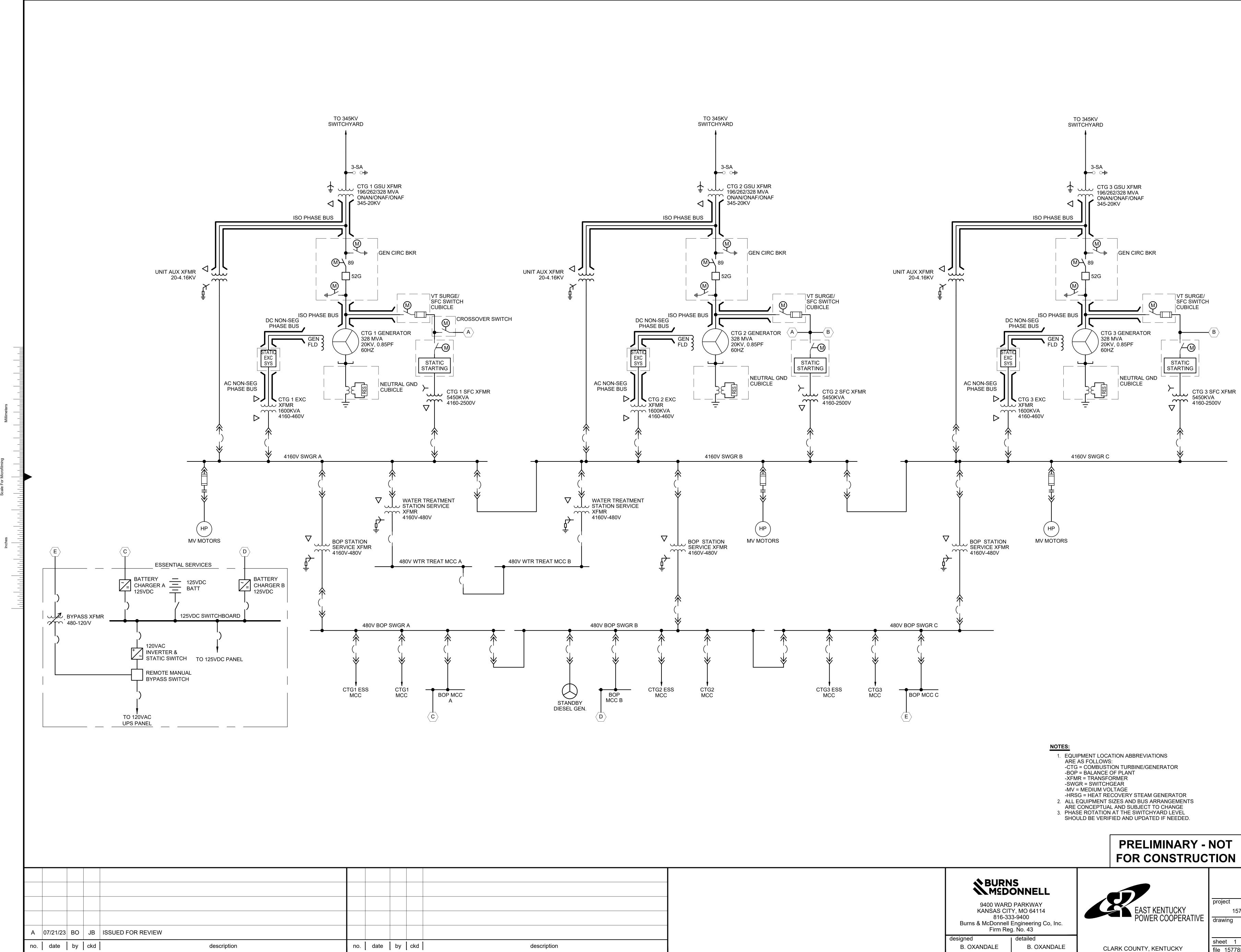
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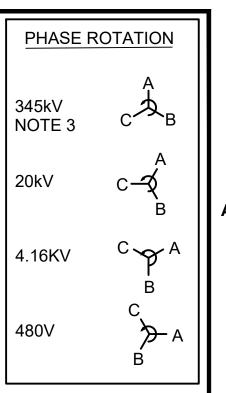
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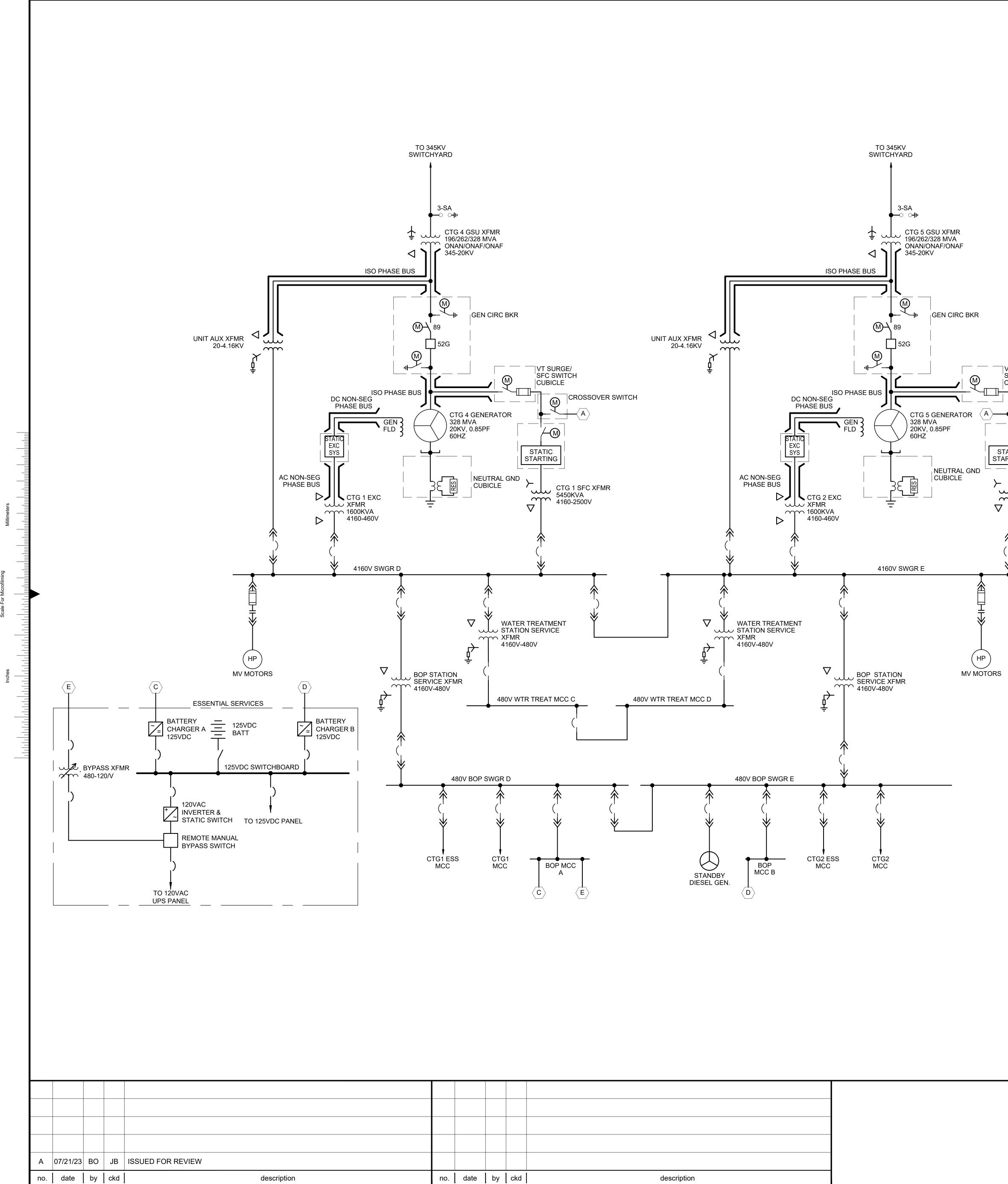


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• J.K. SMITH STATION ONE-LINE DIAGRAM 5 X SC F-CLASS project contract 157785 rev. EE001 Α sheet 1 of 2 sheets file 157785_EE001 SH1.dwg



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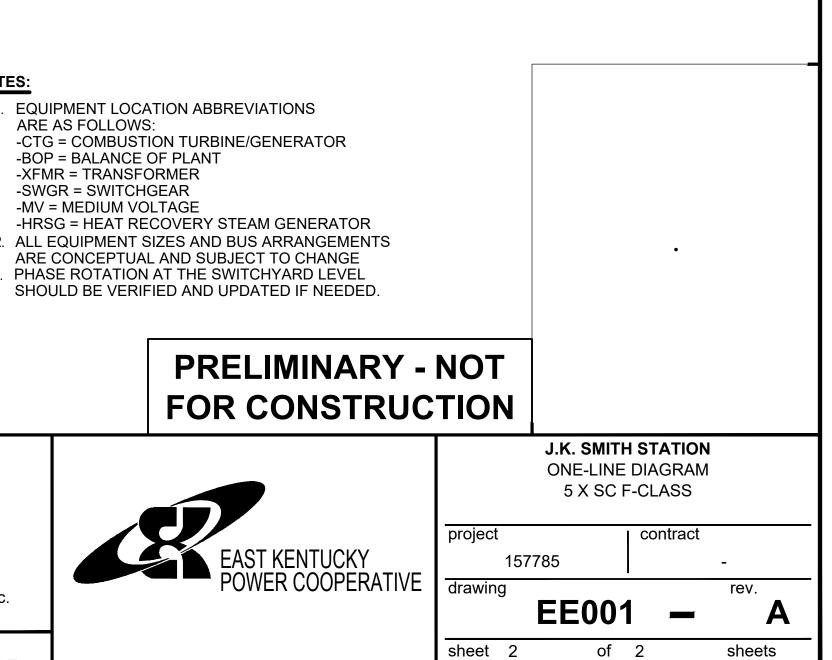
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NOTES:

- 1. EQUIPMENT LOCATION ABBREVIATIONS
- ARE AS FOLLOWS:
- -BOP = BALANCE OF PLANT
- -XFMR = TRANSFORMER
- -SWGR = SWITCHGEAR
- -MV = MEDIUM VOLTAGE -HRSG = HEAT RECOVERY STEAM GENERATOR
- 2. ALL EQUIPMENT SIZES AND BUS ARRANGEMENTS
- ARE CONCEPTUAL AND SUBJECT TO CHANGE 3. PHASE ROTATION AT THE SWITCHYARD LEVEL



file 157785 EE001 SH2.dwg



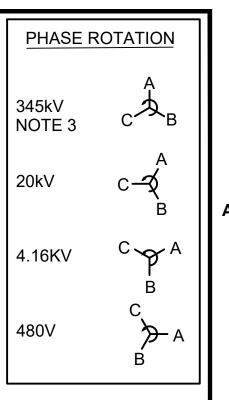
9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 Burns & McDonnell Engineering Co, Inc. Firm Reg. No. 43 detailed

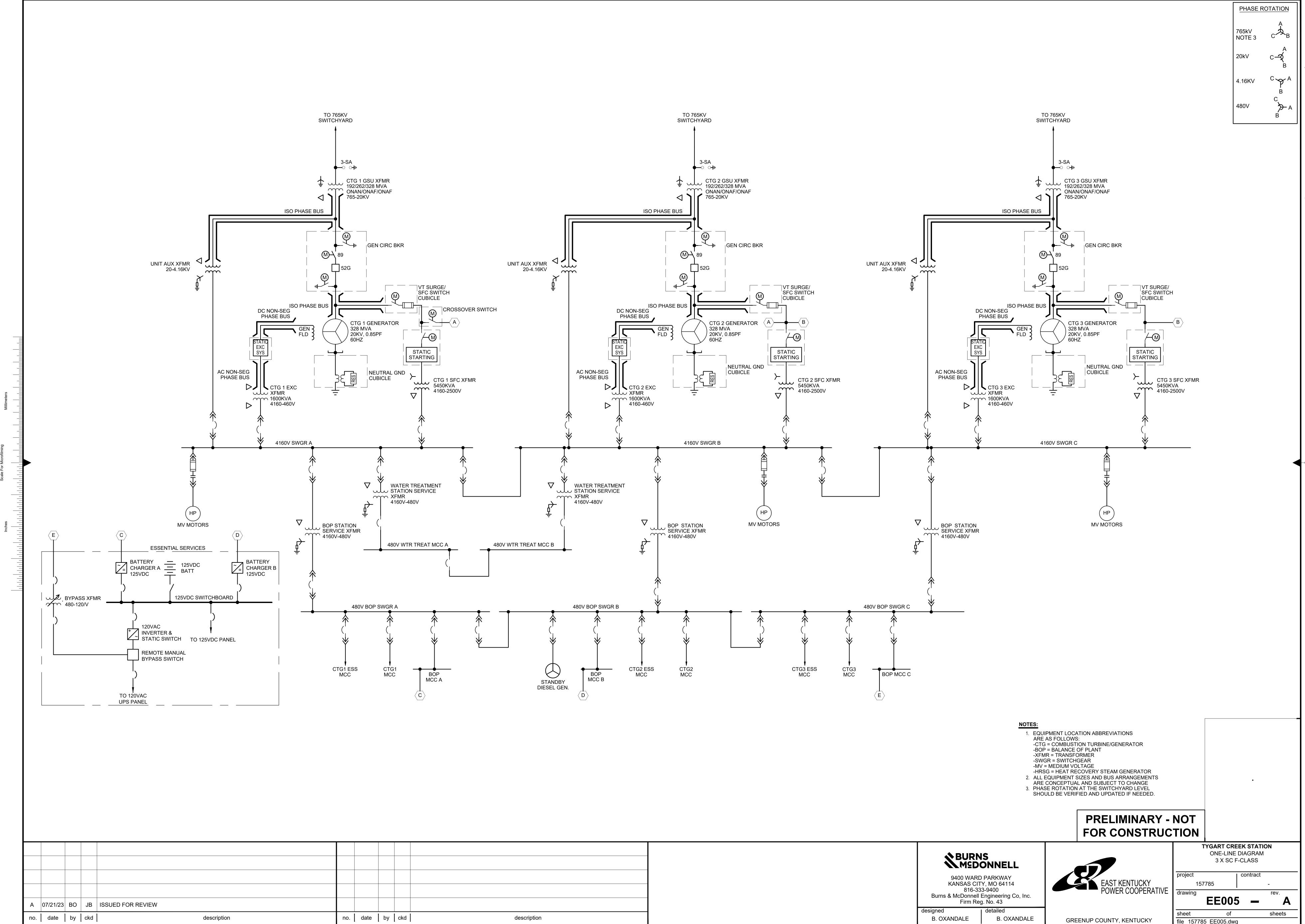
CLARK COUNTY, KENTUCKY



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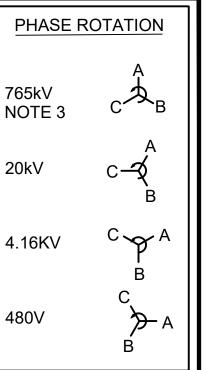




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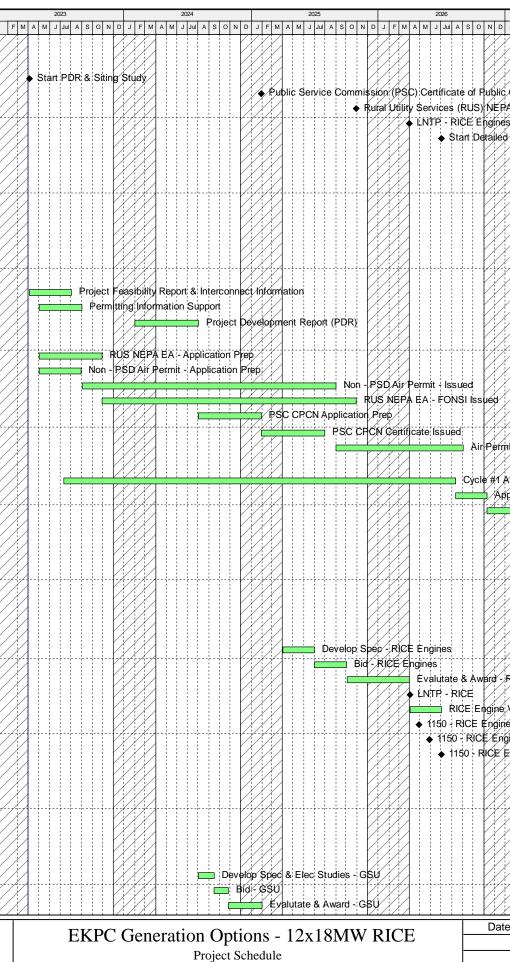
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APPENDIX F – PROJECT SCHEDULES

ity ID	Activity Name	OD	Start	Finish	Total Floa
	eneration Options - 12x18MW RICE				
Milestone					
A1950	Start PDR & Siting Study	0	03-Apr-23		120
MS.1030	Public Service Commission (PSC) Certificate of Public Convenience and Necessi	0		30-Jan-25	790
MS.1060	Rural Utility Services (RUS) NEPA Environmental Impact Statement (EIS) Permit	0		29-Oct-25	701
MS.1220	LNTP - RICE Engines	0		01-Apr-26	37
A2050	Start Detailed Design	0	02-Jul-26		4
A2030	Full Notice to Proceed (FNTP)	0	13-Apr-27		119
MS.1020	Site Mobilization	0	02-Aug-27		156
MS.1120	Essential Service Power Available	0		27-Jun-29	0
MS.1050	BOP Mechanical Completion - Ready for RICE Commissioning	0		16-Sep-29	0
MS.1180	Target Provision Acceptance - RICE	0		17-Dec-29	0
MS.1190	Schedule Margin (calendar days)	60	18-Dec-29	15-Feb-30	0
MS.1200	Provisional Acceptance / Proposed COD	0		15-Feb-30	0
MS.1010	Public Service Commission (PSC) Air Permit Received	0		15-Feb-30	0
Project D	Development				
A1820	Project Feasibility Report & Interconnect Information	121	03-Apr-23	01-Aug-23	171
A1820	Permitting Information Support	88	03-Api-23 01-May-23	01-Aug-23 01-Sep-23	487
A1630 A2140		183	01-May-23 01-Feb-24*	•	467 66
	Project Development Report (PDR)	103	01-FED-24	01-Aug-24	00
Permittin		1			
A1840	RUS NEPA EA - Application Prep	182	01-May-23	30-Oct-23	701
A1980	Non - PSD Air Permit - Application Prep	121	01-May-23	30-Aug-23	395
A2000	Non - PSD Air Permit - Issued	730	03-Sep-23	01-Sep-25	392
A2010	RUS NEPA EA - FONSI Issued	730	30-Oct-23	29-Oct-25	701
A1990	PSC CPCN Application Prep	182	02-Aug-24	30-Jan-25	790
A1890	PSC CPCN Certificate Issued	182	30-Jan-25	31-Jul-25	790
A2020	Air Permit Appeal Period	255	02-Sep-25	01-Sep-26	273
PJM Inter	rconnect				
A2060	Cycle #1 Applications Submitted	784	12-Jul-23	11-Aug-26	119
				0	
A2070	Application Review	64	12-Aug-26	10-Nov-26	119
A2070 A2080	Application Review Phase 1	64 84	12-Aug-26 11-Nov-26	10-Nov-26 15-Mar-27	119 119
A2080	••	84	11-Nov-26	15-Mar-27	119
A2080 A2040	Phase 1 D1	84 21	11-Nov-26 15-Mar-27	15-Mar-27 13-Apr-27	119 119
A2080 A2040 A2090	Phase 1 D1 Phase 2	84 21 126	11-Nov-26 15-Mar-27 13-Apr-27	15-Mar-27 13-Apr-27 11-Oct-27	119 119 385
A2080 A2040 A2090 A2100	Phase 1 D1 Phase 2 D2	84 21 126 22	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27	119 119 385 385
A2080 A2040 A2090 A2100 A2110	Phase 1 D1 Phase 2 D2 Phase 3	84 21 126 22 127	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28	119 119 385 385 385 385
A2080 A2040 A2090 A2100 A2110 A2120	Phase 1 D1 Phase 2 D2 Phase 3 D3	84 21 126 22 127 21	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28	119 119 385 385 385 427
A2080 A2040 A2090 A2100 A2110 A2120 A2130	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement	84 21 126 22 127	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28	119 119 385 385 385 427
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement	84 21 126 22 127 21	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28	119 119 385 385 385 427
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front RICE Eng	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement gines	84 21 126 22 127 21 63	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28	119 119 385 385 385 427 385
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front RICE Eng A1270	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement jines Develop Spec - RICE Engines	84 21 126 22 127 21 63	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 01-Apr-25*	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 01-Jul-25	119 119 385 385 385 427 385
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front RICE Eng A1270 A1150	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement IProcurement Bines Develop Spec - RICE Engines Bid - RICE Engines	84 21 126 22 127 21 63 65 65	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 01-Apr-25* 02-Jul-25	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 01-Jul-25 02-Oct-25	119 119 385 385 427 385 427 385 27 27
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front RICE Eng A1270 A1150 A1170	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement Develop Spec - RICE Engines Bid - RICE Engines Evalutate & Award - RICE Engines	84 21 126 22 127 21 63 63 65 65 125	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 01-Apr-25* 02-Jul-25 03-Oct-25	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 01-Jul-25	119 119 385 385 427 385 427 27 27 27 27
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front A1270 A1150 A1170 A2150	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement Develop Spec - RICE Engines Bid - RICE Engines Evalutate & Award - RICE Engines LNTP - RICE	84 21 126 22 127 21 63 63 65 65 125 0	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 11-May-28 01-Apr-25* 02-Jul-25 03-Oct-25 02-Apr-26	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 01-Jul-25 02-Oct-25 01-Apr-26	119 119 385 385 427 385 27 27 27 27 27
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front RICE Eng A1270 A1150 A1170 A2150 A1160	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement Procurement Develop Spec - RICE Engines Bid - RICE Engines Evalutate & Award - RICE Engines LNTP - RICE RICE Engine Vendor Submittals	84 21 126 22 127 21 63 65 65 125 0 65	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 01-Apr-25* 02-Jul-25 03-Oct-25	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 01-Jul-25 02-Oct-25 01-Apr-26 02-Jul-26	119 119 385 385 427 385 27 27 27 27 27 27 27 27
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front RICE Eng A1270 A1150 A1150 A1150 A1160 A1580	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement Procurement Develop Spec - RICE Engines Bid - RICE Engines Bid - RICE Engines Evalutate & Award - RICE Engines LNTP - RICE RICE Engine Vendor Submittals 1150 - RICE Engines - 30 day Engineering Submittals Issued	84 21 126 22 127 21 63 65 65 125 0 65 0 65 0	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 11-May-28 01-Apr-25* 02-Jul-25 03-Oct-25 02-Apr-26	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 00-Jul-25 02-Oct-25 01-Apr-26 02-Jul-26 29-Apr-26	119 119 385 385 427 385 27 27 27 27 27 27 27 27 70
A2080 A2040 A2090 A2100 A2120 A2130 Up Front RICE Eng A1270 A1150 A1150 A1170 A2150 A1160 A1580 A1850	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement Procurement Develop Spec - RICE Engines Bid - RICE Engines Bid - RICE Engines Evalutate & Award - RICE Engines LNTP - RICE RICE Engine Vendor Submittals 1150 - RICE Engines - 30 day Engineering Submittals Issued 1150 - RICE Engines - 60 day Engineering Submittals Issued	84 21 126 22 127 21 63 65 65 125 0 65 0 65 0 0 0	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 11-May-28 01-Apr-25* 02-Jul-25 03-Oct-25 02-Apr-26	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 00-Aug-28 00-Jul-25 02-Oct-25 01-Apr-26 29-Apr-26 29-May-26	119 119 385 385 427 385 27 27 27 27 27 27 27 27 70 40
A2080 A2040 A2090 A2110 A2120 A2130 Up Front RICE Eng A1270 A1150 A1170 A2150 A1160 A1580 A1850 A1860	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement Procurement Develop Spec - RICE Engines Bid - RICE Engines Bid - RICE Engines Evalutate & Award - RICE Engines LNTP - RICE RICE Engine Vendor Submittals 1150 - RICE Engines - 30 day Engineering Submittals Issued 1150 - RICE Engines - 60 day Engineering Submittals Issued 1150 - RICE Engines - 90 day Engineering Submittals Issued	84 21 126 22 127 21 63 65 65 125 0 65 0 65 0 0 0 0 0 0	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 11-May-28 01-Apr-25* 02-Jul-25 03-Oct-25 02-Apr-26	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 00-Aug-28 00-Jul-25 02-Oct-25 01-Apr-26 29-Apr-26 29-May-26 02-Jul-26	119 119 385 385 427 385 27 27 27 27 27 27 27 70 40 357
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front RICE Eng A1270 A1150 A1150 A1150 A1160 A1850 A1850 A1860 A1590	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement Procurement Develop Spec - RICE Engines Bid - RICE Engines Evalutate & Award - RICE Engines Evalutate & Award - RICE Engines LNTP - RICE RICE Engine Vendor Submittals 1150 - RICE Engines - 30 day Engineering Submittals Issued 1150 - RICE Engines - 60 day Engineering Submittals Issued 1150 - RICE Engines - 90 day Engineering Submittals Issued 1150 - RICE Engines - 90 day Engineering Submittals Issued 1150 - Delivery to Site Complete - Engine Auxiliaries Set 1	84 21 126 22 127 21 63 65 65 125 0 65 125 0 65 0 0 0 0 0 0 0 0	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 11-May-28 01-Apr-25* 02-Jul-25 03-Oct-25 02-Apr-26	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 00-Aug-28 00-Jul-26 02-Oct-25 01-Apr-26 29-Apr-26 29-May-26 02-Jul-26 13-Apr-27	119 119 385 385 427 385 27 27 27 27 27 27 27 27 27 70 40 357 402
A2080 A2040 A2090 A2100 A2110 A2120 A2130 Up Front RICE Eng A1270 A1150 A1150 A1150 A1160 A1850 A1850 A1860 A1590 A1870	Phase 1 D1 Phase 2 D2 Phase 3 D3 Final Agreement Procurement Procurement Develop Spec - RICE Engines Bid - RICE Engines Evalutate & Award - RICE Engines LNTP - RICE RICE Engine Vendor Submittals 1150 - RICE Engines - 30 day Engineering Submittals Issued 1150 - RICE Engines - 60 day Engineering Submittals Issued 1150 - RICE Engines - 90 day Engineering Submittals Issued 1150 - RICE Engines - 90 day Engineering Submittals Issued 1150 - Delivery to Site Complete - Engine Auxiliaries Set 1 1150 - Delivery to Site Complete - Engine Auxiliaries Set 2	84 21 126 22 127 21 63 65 65 125 0 65 125 0 65 0 0 0 0 0 0 0 0 0 0	11-Nov-26 15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 11-May-28 01-Apr-25 02-Jul-25 03-Oct-25 02-Apr-26 02-Apr-26	15-Mar-27 13-Apr-27 11-Oct-27 10-Nov-27 11-May-28 12-Jun-28 10-Aug-28 00-Aug-28 00-Jul-25 02-Oct-25 01-Apr-26 29-Apr-26 29-May-26 02-Jul-26	119 119 385 385 427 385 27 27 27 27 27 27 27 27 27 70 40 357 402 447
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A1670 A1100 Detailed		00	Start	Finish	Total Float		20			2024		2025		2026		2027		2028		2029	
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	NTP - GSU GSU - Fabrication & Delivery (48M) 1015		31-Jan-25 31-Jan-25	31-Jan-29	45 45															GSU - Fabric	ation & D
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	Geotech & Survey	65	-	01-Jul-26	4													Detailed Design	RICE		
1130	Detailed Design - RICE	370	02-Jul-26	15-Dec-27	4													Detailed Design			
	curement	100	47.1.1.00	04 4 07*														ment Bid/Award			
A1120	RICE BOP Procurement - Bid/Award RICE BOP Procurement - Vendor Submittals	180	17-Jul-26	01-Apr-27*	4	_///>											/ - /	BOP Procureme		mittale	
A2160	Switchgear - Fabrication & Delivery (21M)	120	08-Apr-27	27-Sep-27	0													/-/-/	·	Switchgoor	abrication
A1110 A1090	Engine Hall - Fabrication & Delivery	445 190	08-Apr-27 30-Sep-27	09-Jan-29 28-Jun-28	0	-///														brication & De	
A1190	RICE BOP Procurement - Fab & Deliver	255	22-Dec-27	20-Jun-28 21-Dec-28	0														R	ICE BOP Proc	urement./
	ction & Startup	200	22-Dec-27	21-Dec-20	0		2													4	
	ction Subcontracts					<i></i>		·					/././.					rep-Bid/Award		4	
	8110 - Site Prep - Bid/Award	170	16-Oct-26	17-Jun-27	107													A Bid/Award			
A2180	8210 - Pile - Bid/Award	170	13-Nov-26	16-Jul-27	107												о <u>и</u> то - Рие	² 810/Award 8220 + Founda		d/Award	
A1200 A1210	8220 - Foundations & U/G - Bid/Award 8320 - A/G Mechanical - Bid/Award	170 170	26-Apr-27 16-Nov-27	27-Dec-27 18-Jul-28	0 15								XXX/					0220 - Foundat	10015 & 0/G - Bi 1 8320 - A/G/Me	chanical - Rid	Award
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42170	8210 - Pile - RICE	50	30-Aug-27*	08-Nov-27	107		2						///				8	210 - Pile - RICE			
A1010	8220 - U/G Utilities - RICE	115	01-Mar-28*	10-Aug-28	0		1												💼 8220 - U/G I		
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41030	4310 - Engine Hall - RICE	140	07-Jul-28	25-Jan-29	0															4310 - Engine	1 1 I K 2
A1060	8320 - A/G Mechanical - RICE	190	19-Oct-28	19-Jul-29	15																8320 - A/
A1600	1150 - Set Engines & Generators & Connect Baseframes	28	13-Nov-28	21-Dec-28	0		2													150 - Set Engir	nes & Gen
41070	8410 - A/G Electrical - RICE	190	22-Dec-28	21-Sep-29	0		1														8410
A1080	8370 - FE Tanks - RICE	120	03-Jan-29	20-Jun-29	15		/										/		//		370 - FE T
A1320	Essential Power Available - RICE	0	28-Jun-29		0																ssential F
A2190	Commissioning - RICE	120	28-Jun-29	17-Dec-29	0																
A1610	1150 - Engine Commissioning - RICE	65	17-Sep-29	17-Dec-29	0													\times			

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ity ID	Activity Name	OD	Start	Finish	Variance - BL Project	Variance - BL Project		2023				024			2025		2026	
					Start Date	Finish Date		FMAMJJA	SON	DJFM	A M J	JASC	NDJ	FMAM	JJASO	NDJF	MAMJJ	ASON
EKPC Gen	neration Options - 2x1 CC F Class Brownfield	1931	01-Apr-23	07-Nov-30	-147	7											(
Milestones		1931	01-Apr-23	07-Nov-30	-147	7								/				1
MS.1040	Start PDR & Siting Study	0	01-Apr-23		-212	-212		Start PD	R &	Sitting St	tudy							
MS.1000	Power Island Selection	0		01-Aug-24	487	487		1				🔶 Pov	ver Isla	nd Sele	ctian			/
MS.1030	Public Service Commission (PSC) Certificate of Public Convenience and Necessity (CPCN) F	0		02-Aug-25	-610	-610								4	🔶 Pub	lic Serv	ice Comm	nission (
A1990	Memorandun of Understanding (MOU) - Power Island	0	04-May-26		-107	-107	/-/-/	1	~				///	<u></u>			♦ Mer	morandur
A2000	Announce Capacity Deactivation	0	12-Aug-26		-134	-134								2			1	♦ Annoi
MS.1010	PSD Air Permit Received	0		29-Oct-26	-151	-151								4				lll∔j
MS.1060	Rural Utility Services (RUS) NEPA Environmental Impact Statement (EIS) Permit Received	0		27-Jan-27	-151	-151		1	/									
MS.1000	Site Mobilization	0	28-Jan-27	27-5411-27	379	379		1						2				
A1970	Notice to Proceed (NTP)	0	13-Apr-27		-134	-134	///	,						A		///		/
MS.1120	Backfeed - CC Brownfield	0	10770127	18-Oct-29	8	8		1	1									
MS.1050	First Fire - CC Brownfield	0		20-Mar-30	8	0								2				
MS.1030 MS.1180	Target Provision Acceptance - CC Brownfield	0		09-Aug-30	10	10								/				/
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MS.1190	Schedule Margin (calendar days)		09-Aug-30	07-Nov-30	10	10	//-]	/	//							<u> </u>	
MS.1200	Provisional Acceptance / Proposed COD	0	04.4 5 5 00	07-Nov-30	10	10								/				1
Project Dev		340	01-Apr-23	01-Aug-24	-147	-424												
A1820	Project Feasibility Report & Interconnect Information	123	01-Apr-23	01-Aug-23	-212	-244	<u> </u>								Informatio	n///		
A1920	Permitting Information Support	88	01-May-23	01-Sep-23					Perr	nitting li	nform	ation St	1/1/1	/				/
A1830	Project Development Report	129	01-Feb-24*	01-Aug-24								Pro	ject Øe	velopm	ent Repor	t///		
Permitting		1145	01-May-23	01-Nov-27	-104	-107		1						<u>, </u>				
A1860	PSD Air Permit - Application Prep	183	01-May-23	30-Oct-23	-151	-151				st Air	Perm	nit - App	lication	a∕ Prep			(
A1840	RUS NEPA EIS - Application Prep	273	01-May-23	28-Jan-24	-151	-151			: /:			1 1 1 1	1 2 ! / !	lication F	Prep			
A1870	PSD Air Permit - Issued	1095	30-Oct-23	29-Oct-26	-151	-151		1		/ ./			1. 6 1	/		V. X. V.		i i i i i i i i i i i i i i i i i i i
A1850	RUS NEPA EIS - ROD Issued	1095	29-Jan-24	27-Jan-27	-151	-151												
A1880	PSC CPCN Application Prep	182	02-Aug-24	31-Jan-25	-610	-610		*****	{/					PSCC	PCN An	dication	Prep	/
A1890	PSC CPCN Certificate Issued	183	31-Jan-25	02-Aug-25	-610	-610		1					///				Certificat	
A1980	Air Permit Appeal Period	255	29-Oct-26	01-Nov-27	-107	-107								2111				
PJM Interco		1291	12-Jul-23	10-Aug-28	-134	-134								4111				
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A2010	Cycle #1 Applications Submitted	784	12-Jul-23	11-Aug-26	-134	-134							-/-/-;	A				Cycle
A2020	Application Review	64	12-Aug-26	10-Nov-26	-134	-134								/		///		
A2030	Phase 1	84	11-Nov-26	15-Mar-27	-134	-134		1	/								1	
A2040	D1	21	15-Mar-27	13-Apr-27	-134	-134		1						211				H
A2050	Phase 2	126	13-Apr-27	11-Oct-27	-134	-134								/				$\overline{}$
A2060	D2	22	11-Oct-27	10-Nov-27	-134	-134	<u> </u>	1		\square				4			ļ	/
A2070	Phase 3	127	10-Nov-27	11-May-28	-134	-134		1						2				
A2080	D3	21	11-May-28	12-Jun-28	-134	-134								/				
A2090	Final Agreement	63	11-May-28	10-Aug-28	-134	-134		1	\sim					4			1	
Up Front Pr	rocurement	1395	02-Aug-23	30-Jan-29	-169	424		1										
Power Islan	nd	1378	02-Aug-23	08-Jan-29	-169	-134												1
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A1150	Bid - Power Island	65	02-Nov-23	06-Feb-24	-169	-169				В	id - P	ower Isl					Sid Evalu	ITATE AV S
A1150 A1170	Bid - Power Island Re-Bid, Evalutate & Select - Power Island	65 125	02-Nov-23 07-Feb-24		-169 338	-169 338				B	id - P		and		nd	Re	Bid, Evalu	
A1150 A1170 A1940	Bid - Power Island Re-Bid, Evalutate & Select - Power Island LNTP - Power Island	65 125 0	02-Nov-23 07-Feb-24 02-Aug-24	06-Feb-24 01-Aug-24	-169 338 549	-169 338 549				B	id - P		and	ower Isla	nd	A Re-	Bid, Evalu	itate & S
A1150 A1170 A1940 A1160	Bid - Power Island Re-Bid, Evalutate & Select - Power Island LNTP - Power Island Power Island Vendor Submittals	65 125 0 160	02-Nov-23 07-Feb-24 02-Aug-24 02-Aug-24	06-Feb-24	-169 338	-169 338				B	id - P		and		ınd	Re	Bid, Evalι	
A1150 A1170 A1940 A1160 A2100	Bid - Power Island Re-Bid, Evalutate & Select - Power Island LNTP - Power Island Power Island Vendor Submittals FNTP - Power Island	65 125 0 160 0	02-Nov-23 07-Feb-24 02-Aug-24 02-Aug-24 13-Apr-27	06-Feb-24 01-Aug-24 20-Mar-25	-169 338 549 549	-169 338 549 549				B	id - P		and		inid	Re	Bid, Evalı	
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A1150 A1170 A1940 A1160 A2100 P.OEM.1050 P.OEM.1060 P.OEM.1070 ACC	Bid - Power Island Re-Bid, Evalutate & Select - Power Island LNTP - Power Island Power Island Vendor Submittals FNTP - Power Island 60 Heat Recovery Steam Generator (HRSG) - Fab / Deliver (17M) 60 Combustion Gas Turbine (CGT) - Fab / Deliver (20M) 70 Steam Turbine Generator (STG) - Fab / Deliver (22M)	65 125 0 160 0 340 400 440 1108	02-Nov-23 07-Feb-24 02-Aug-24 02-Aug-24 13-Apr-27 13-Apr-27 13-Apr-27 13-Apr-27 02-Aug-24	06-Feb-24 01-Aug-24 20-Mar-25 14-Aug-28 07-Nov-28 08-Jan-29 13-Dec-28	-169 338 549 549 -134 -134 -134 -134 394	-169 338 549 549 -134 -134 -134 -134				B	id - P	◆ LN	and		ind	Re		
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A1150 A1170 A1940 A1160 A2100 P.OEM.1050 P.OEM.1050 P.OEM.1070 A1780 A1780 A1790 A1800	Bid - Power Island Re-Bid, Evalutate & Select - Power Island LNTP - Power Island Power Island Vendor Submittals FNTP - Power Island 60 Heat Recovery Steam Generator (HRSG) - Fab / Deliver (17M) 60 Combustion Gas Turbine (CGT) - Fab / Deliver (20M) 70 Steam Turbine Generator (STG) - Fab / Deliver (22M) Develop Spec - ACC Bid - ACC Evalutate & Select - ACC	65 125 0 160 0 340 400 440 1108 45 65	02-Nov-23 07-Feb-24 02-Aug-24 02-Aug-24 13-Apr-27 13-Apr-27 13-Apr-27 02-Aug-24 02-Aug-24 07-Oct-24 10-Dec-24	06-Feb-24 01-Aug-24 20-Mar-25 14-Aug-28 07-Nov-28 08-Jan-29 13-Dec-28 04-Oct-24 09-Dec-24	-169 338 549 549 -134 -134 -134 394 394 394 394	-169 338 549 549 -134 -134 -134 -134 394 394				B	id - P	◆ LN	and	bwer Isla			Dęvi	elop Spe Bid - AQ
A1150 A1170 A1940 A1160 A2100 P.OEM.1050 P.OEM.1050 P.OEM.1070 A1780 A1780 A1790 A1800 A1950	Bid - Power Island Re-Bid, Evalutate & Select - Power Island LNTP - Power Island Power Island Vendor Submittals FNTP - Power Island 60 Heat Recovery Steam Generator (HRSG) - Fab / Deliver (17M) 60 Combustion Gas Turbine (CGT) - Fab / Deliver (20M) 70 Steam Turbine Generator (STG) - Fab / Deliver (22M) Develop Spec - ACC Bid - ACC Evalutate & Select - ACC LNTP - ACC	65 125 0 160 0 340 400 440 1108 45 65 0	02-Nov-23 07-Feb-24 02-Aug-24 02-Aug-24 13-Apr-27 13-Apr-27 13-Apr-27 02-Aug-24 02-Aug-24 02-Aug-24 10-Dec-24 14-Mar-25	06-Feb-24 01-Aug-24 20-Mar-25 14-Aug-28 07-Nov-28 08-Jan-29 13-Dec-28 04-Oct-24 09-Dec-24 13-Mar-25	-169 338 549 549 -134 -134 -134 394 394 394 394 394 394	-169 338 549 549 -134 -134 -134 -134 -134 394 394 394				B		◆ LN	and	bwer Isla			Dęvi	elop Spe Bid - AQ

Start Date01-Apr-23Finish Date07-Nov-30Data Date01-Apr-23Run Date19-Jun-23



EKPC Generation Options - 2x1 CC F Class Brownfield Project Schedule Page 1 of 2

Site Mobilizat	(MOU) + Power Is ctivation ceived ervices (RUS) NE ion			
Notice to	N Proceed (NTP)		◆ Backfe	ed - CC Brownf ♦ First Fire - C ♦ Targ
	sued IS - ROD issued			
Cycle #1 Applications Su Application Review Phase 1		peal Period		
		³ hase 3 D3 Final Agreement		
tate & Select - Power Islar	nd			
Power	Island Vendor Su ower Island	Heat Recovery Stee	as Turbine (CG	T) - Fab / Deliv
elop Spec - ACC 3id - ACC Evalutate & Select	ACC	Steam lur		(STG) - Fab / [
ACC Vendor 1	Submittals ACC		cation & Delive	ny (18M) Approved

	Activity Name	OD	Start	Finish	Variance - Var BL Project BL Start Date Finis	ariance - Project ish Date						2030
GSU		1140	02-Aug-24	30-Jan-29		424					J A S O N D J F M A M J J A S O N D J F M A M	JJA
	Develop Spec - GSU	30	02-Aug-24	13-Sep-24	424	424			Develop Spec - GSU			
	Bid - GSU	30	16-Sep-24	25-Oct-24	424	424		. /. / / . /. /	= Bid - GSU			
A1660	Evalutate & Select - GSU	65	28-Oct-24	30-Jan-25	424	424			Evalutate & Sele	rt - G\$U		
A1960	NTP - GSU	0	31-Jan-25		424	424		◆ NTP - GSU				
A1100	GSU - Fabrication & Delivery (48M)	1015	31-Jan-25	30-Jan-29	424	424						
Detailed Des	ign	1070	02-Aug-24	18-Oct-28	549	174						
A1140	Geotech & Survey	65	02-Aug-24	01-Nov-24	549	549			Geotech &	Survey		
A1360	Detailed Design - CC Brownfield	360	04-Nov-24	06-Apr-26	549	549					Detailed Design - CC Brownfield	
BOP Procure	ment	965	03-Jan-25	18-Oct-28	549	174						
A1120	BOP Procurement - Bid/Award	150	03-Jan-25	04-Aug-25	549	549				— BØP∕Procurem	ent - Bid/Award	
A2120	BOP Procurement - Vendor Submittals	150	28-Mar-25	28-Oct-25				BOP Procure	ement - Vendor Submittals			
A1110	PDC - Fabrication & Delivery (24M)	510	16-Oct-26	18-Oct-28	174	174					PDC - Fabrication 8	i & Del
A1190	BOP Procurement - Fab & Deliver	300	13-Apr-27	16-Jun-28	31	31					BOP Procurement - Fab & Deliver	
Construction	1 & Startup	1378	07-Mar-25	09-Aug-30	549	6	/					
Construction	Subcontracts	405	07-Mar-25	08-Oct-26	549	484						
	8110 - Site Prep - Bid/Award	170	07-Mar-25	04-Nov-25	549	464				- 8110 Site Prep	Bid/Awand	
	Construction Subcontracts Bid/Award - CC Brownfield	405	07-Mar-25	08-Oct-26		484	///////////////////////////////////////				Construction Subcontracts/Bid/Award	d - CC
	8220 - Foundations & U/G - Bid/Award	170	08-Oct-25	09-Jun-26		424				8220 -	Foundations & U/G - Bid/Award	
	8320 - A/G Mechanical - Bid/Award	170	11-Dec-25	12-Aug-26	519	454	/ <i> / /</i>			//4	3320 - A/G Mechanical - Bid/Award	
A1220	8410 - A/G Electrical - Bid/Award	170	10-Feb-26	08-Oct-26	549	484	//				8410 A/G Electrical - Bid/Award	
CC Construct	tion & Startup	898	28-Jan-27	09-Aug-30	264	6						
	Site Prep & Mass Excavation - CC Brownfield	60	28-Jan-27	21-Apr-27	264	264	/			s s	te Prep & Mass Excavation - CC Brownfield	ld
A1900	Construction & Startup - CC Brownfield	898	28-Jan-27	09-Aug-30	264	6						
CN.PWR.10	Pwr Block - Fdns & UG Utilities - CC Brownfield	175	25-Mar-27	30-Nov-27	264	239					Pwi Block - Fdns & UG Utilities	- CC B
CN.BOP.100	BOP - Fdns & UG Utilities - CC Brownfield	85	01-Dec-27	31-Mar-28	239	239					BOP - Fdns & UG Utilities	
CN.BOP.102	BOP - Equipment - CC Brownfield	120	09-Aug-28	30-Jan-29	84	84					BOP - Equipment - C	CC Br
CN.PWR.10	Unit 1 HRSG & Stack Erection through Hydro - CC Brownfield	260	14-Aug-28	22-Aug-29	6	26					Unit 1 HRSG	G & St
CN.BOP.103	BOP - Mechanical - CC Brownfield	160	14-Sep-28	01-May-29	84	84			///		Unit 11HRSG BOP - Mechan	inical -
CN.PWR.10	Pipe Rack & Piping Erection - CC Brownfield	240	26-Sep-28	06-Sep-29	6	6					Pipe Rack & F	Piping
CN.PWR.10	Unit 2 HRSG & Stack Erection through Hydro - CC Brownfield	260	26-Sep-28	04-Oct-29	6	26					Unit 2 HRS	RSG & S
CN.BOP.104	BOP - Electrical - CC Brownfield	180	19-Oct-28	05-Jul-29	84	84					BØP Elec	ectrical
CN.PWR.10	Unit 1 CTG Erection through LO Flush - CC Brownfield	235	07-Nov-28	11-Oct-29	-9	-9					Unit 1 CTG I	Erecti
CN.PWR.10	Pipe Rack & Piping Erection - CC Brownfield	240	07-Nov-28	18-Oct-29	6	6				///	Pipe Rack	k & Pipi
CN.BOP.101	ACC Erection through Pneumatic Testing - CC Brownfield	210	13-Dec-28	11-Oct-29	6	46					AQC Ere	rection
CN.PWR.10	Unit 2 CTG Erection through LO Flush - CC Brownfield	235	20-Dec-28	23-Nov-29	-9	-9	/				Unit 2 CT	TG Ere
CN.PWR.10	STG Erection through LO Flush - CC Brownfield	180	19-Feb-29	01-Nov-29	-9	-9	~				STG Erecti	
SU.1000	Back Energize - CC Brownfield	0		18-Oct-29	6	6						gize - (
SU.1010	BOP Checkout - CC Brownfield	100	18-Oct-29	13-Mar-30	6	6				///	ВС	BOP C
SU.1020	ACC Checkout - CC Brownfield	30	15-Nov-29	02-Jan-30	21	21						¢ Chec
SU.1040	CTG Checkout - CC Brownfield	65	15-Nov-29	20-Feb-30	6	6						TĠ Ċhe
SU.1100	CTG Checkout - CC Brownfield	65	23-Nov-29	27-Feb-30	1	1						TG Che
	HRSG Chem Clean, Restore, & Recirculate - CC Brownfield	45	30-Nov-29	06-Feb-30	6	6		//		///		RSG Ch
SU.1090	HRSG Chem Clean, Restore, & Recirculate - CC Brownfield	45	02-Jan-30	06-Mar-30	6	6						HRSG (
	ST Checkout - CC Brownfield	30	23-Jan-30	06-Mar-30	6	6						ST Che
SU.1060	First Fire & Rough Tuning - CC Brownfield	5	20-Mar-30	27-Mar-30	6	6						First F
	Steam Disusta STO Suma CO Drawnfield	30	27-Mar-30	08-May-30	6	6	/				/ / / / / / =	📕 Stea
SU.1070	Steam Blow to STG Sync - CC Brownfield											



APPENDIX G – PERFORMANCE AND EMISSIONS

\frown			CONFI	DENTIAL Handbook
	Title:	Indicative emissions US projects 18V50DF-D	Doc.ID:	DBAD556996
			Revision:	h
WÄRTSILÄ	Author:	RAUDASKOSKI, RIITTA (RRA023)	Status:	Approved
	Approved by:	Raudaskoski, Riitta/2/28/2023	Pages:	1 (2)
	Organisation:	ENERGY BUSINESS (WÄRTSILÄ CORPORATIO	N)	

This document provides <u>indicative</u> stack emissions at steady state operation conditions for one Wärtsilä 18V50DF-D (60Hz/514 rpm, pipeline natural gas/ultra-low sulphur diesel, high MN, ambient conditions according to ISO 3046) engine equipped with an efficient emission control system. Emission control system includes a selective catalytic reduction system and an oxidation catalyst. The estimates are for US new build projects only. The figures are indicative and **shall under no circumstances be considered guarantee data**.

Natural gas operation (pilot fuel ultra-low sulphur diesel (Sulphur content of <0.0015 wt %))

		100%	75%	50%	40%
		engine	engine	engine	engine
		load	load	load	load
NO _x (as NO ₂)	ppm-v, 15 % O ₂ , dry	6	6	9	9
СО	ppm-v, 15 % O ₂ , dry	15	15	15	15
VOC (as CH ₄) Note 2	ppm-v, 15 % O ₂ , dry	26	26	37	42
VOC (as C_3H_8) Note 2	ppm-v, 15 % O ₂ , dry	8.67	8.67	12.33	14
CH ₂ O	ppm-v, 15 % O ₂ , dry	0.7	0.9	1.3	1.6
NH ₃	ppm-v, 15 % O ₂ , dry	10	10	10	10
PM10 (total)	mg/Nm ³ , 15% O ₂ , dry ^{Note 1}	15	15	20	20
NO _x (as NO ₂)	lb/h	3.19	2.48	2.57	2.11
СО	lb/h	4.85	3.78	2.61	2.14
VOC (as CH_4) Note 2	lb/h	4.81	3.75	3.68	3.44
VOC (as C_3H_8) Note 2	lb/h	4.41	3.44	3.37	3.15
CH ₂ O	lb/h	0.243	0.243	0.243	0.243
NH ₃	lb/h	1.97	1.53	1.06	0.87
PM10 (total)	lb/h	3.88	3.02	2.78	2.29

Note 1. Nm³ defined at 0 °C and 101.3 kPa (abs)

Note 2. The VOC concentration of the flue gas in the stack is dependent on the composition of the natural gas. Emission values in the table above are valid for fuel gas with max. VOC concentration (sum of propane + butane + pentane + hexane) 0.5 vol-%. If the concentration (sum of propane + butane + pentane + hexane) in the feed natural gas exceeds 0.5 vol-%, the VOC emissions shall be corrected according to the table below. In the table the sum of propane + butane + pentane + hexane is denoted C_{GasVOC} .

	Factor for VOC correction
Actual feed gas C _{Gasvoc}	VOC number guarantee * factor
$0 \text{ vol-}\% \leq C_{GasVOC} < 0.50 \text{ vol-}\%$	1.0
$0.50 \text{ vol-}\% \le C_{GasVOC} < 1.00 \text{ vol-}\%$	1.3
1.00 vol-% ≤ C _{Gasvoc} < 1.50 vol-%	1.6

		100% engine	75% engine	50% engine	40% engine
		load	load	load	load
NO _X (as NO ₂)	ppm-v, 15 % O ₂ , dry	35	35	40	40
со	ppm-v, 15 % O ₂ , dry	20	20	20	20
VOC (as CH ₄)	ppm-v, 15 % O ₂ , dry	40	40	40	40
VOC (as C ₃ H ₈)	ppm-v, 15 % O ₂ , dry	13.33	13.33	13.33	13.33
NH₃	ppm-v, 15 % O ₂ , dry	10	10	10	10
PM10 (total)	mg/Nm ³ , 15% O ₂ , dry	20	20	30	30
PM (dry)	mg/Nm ³ , 15% O ₂ , dry ^{Note 1}	15	15	25	25
NO _x (as NO ₂)	lb/h	20.10	15.08	11.92	10.01
со	lb/h	6.99	5.25	3.63	3.05
VOC (as CH ₄)	lb/h	8.01	6.01	4.16	3.49
VOC (as C ₃ H ₈)	lb/h	7.34	5.50	3.81	3.20
NH ₃	lb/h	2.13	1.59	1.10	0.93
PM10 (total)	lb/h	5.60	4.20	4.35	3.66
PM (dry)	lb/h	4.20	3.15	3.63	3.05

Back-up fuel operation (ultra-low sulphur diesel (Sulphur content of <0.0015 wt %))

Note 1. Nm³ defined at 0 °C and 101.3 kPa (abs)



EKPC - Smith

2x1 SCC6-5000F - Estimated Exhaust Stack Emissions

Combined Cycle with ULN Combustor

June 21, 2023

SITE CONDITIONS:	CASE 1	CASE 2	CASE 3	CASE 4	CASE 5	CASE 6	CASE 7	CASE 8	CASE 9	CASE 10	CASE 11	CASE 12	CASE 13	CASE 14
FUEL TYPE	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
GT LOAD LEVEL	100%	75%	50%	36%	100%	75%	50%	32%	100%	75%	100%	72%	48%	34%
NET FUEL HEATING VALUE, Btu/lbm (LHV)	20,680	20,680	20,680	20,680	20,680	20,680	20,680	20,680	20,680	20,680	20,680	20,680	20,680	20,680
GROSS FUEL HEATING VALUE, Btu/lbm (HHV)	22,913	22,913	22,913	22,913	22,913	22,913	22,913	22,913	22,913	22,913	22,913	22,913	22,913	22,913
EVAPORATIVE COOLER STATUS	OFF	ON	ON	ON	OFF	OFF	OFF							
AMBIENT DRY BULB TEMPERATURE, °F	11	11	11	11	59	59	59	59	59	59	85	85	85	85
AMBIENT RELATIVE HUMIDITY, %	70	70	70	70	60	60	60	60	60	60	65	65	65	65
BAROMETRIC PRESSURE, psia	14.281	14.281	14.281	14.281	14.281	14.281	14.281	14.281	14.281	14.281	14.281	14.281	14.281	14.281
GT FUEL FLOW, Ib _m /hr	107,459	87,591	67,741	56,605	108,679	87,194	67,384	52,464	108,061	87,275	104,488	82,001	63,556	52,283
GT HEAT INPUT, MMBtu/hr (HHV)	2,462	2,007	1,552	1,297	2,490	1,998	1,544	1,202	2,476	2,000	2,394	1,879	1,456	1,198
GT EMISSIONS (Based on USEPA Test Method	s):													
NO _x , ppmvd @ 15% O ₂	. 15	15	15	15	15	15	15	15	15	15	15	15	15	15
NO _X , lb _m /hr as NO ₂	138	112	86.2	71.8	140	112	85.8	66.6	139	112	134	105	81.1	66.5
CO, ppmvd @ 15% O ₂	4	4	9	9	4	4	9	9	4	4	4	4	9	9
CO, lb _m /hr	22.4	18.2	31.5	26.2	22.7	18.1	31.3	24.3	22.5	18.1	21.8	17.1	29.6	24.3
STACK EXHAUST GAS														
EXHAUST FLOW, Ib _m /hr	4,547,062	3,784,972	3,162,594	2,784,942	4,687,542	3,700,617	3,083,186	2,583,812	4,617,463	3,704,759	4,480,586	3,528,162	2,940,996	2,561,551
STACK TEMPERATURE, °F	201	191	184	180	206	188	180	173	204	189	212	196	188	182
OXYGEN, Vol. %	12.05	12.27	12.94	13.36	12.07	11.96	12.62	13.22	11.94	11.92	11.67	11.79	12.41	12.87
CARBON DIOXIDE, Vol. %	4.14	4.04	3.73	3.54	4.05	4.10	3.80	3.52	4.09	4.10	4.05	4.03	3.74	3.52
WATER, Vol. %	8.02	7.83	7.24	6.87	8.68	8.77	8.19	7.67	8.98	9.00	10.58	10.24	9.69	9.29
NITROGEN, Vol. %	74.89	74.97	75.20	75.34	74.31	74.28	74.50	74.71	74.10	74.10	72.83	73.08	73.29	73.44
ARGON, Vol. %	0.89	0.89	0.90	0.90	0.88	0.88	0.89	0.89	0.88	0.88	0.87	0.87	0.87	0.87
MOLECULAR WEIGHT	28.46	28.47	28.51	28.53	28.38	28.37	28.41	28.44	28.35	28.35	28.17	28.21	28.24	28.27
STACK EMISSIONS (Based on USEPA Test Met	thods):													
NO _x , ppmvd @ 15% O ₂	2	2	2	2	2	2	2	2	2	2	2	2	2	2
NO _X , lb _m /hr as NO ₂	18.4	14.9	11.5	9.6	18.6	14.9	11.4	8.9	18.5	14.9	17.9	14.0	10.8	8.9
NH ₃ , ppmvd @ 15% O ₂	10	10	10	10	10	10	10	10	10	10	10	10	10	10
NH ₃ , lb _m /hr	34.1	27.7	21.3	17.7	34.5	27.5	21.2	16.4	34.3	27.6	33.2	25.9	20.0	16.4
CO, ppmvd @ 15% O ₂	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO, lb _m /hr	11.2	9.1	7.0	5.8	11.3	9.1	7.0	5.4	11.3	9.1	10.9	8.5	6.6	5.4
VOC, ppmvd @ 15% O ₂ as CH ₄	1	1	1	1	1	1	1	1	1	1	1	1	1	1
VOC, Ib _m /hr as CH ₄	3.2	2.6	2.0	1.7	3.2	2.6	2.0	1.5	3.2	2.6	3.1	2.4	1.9	1.5
UHC, ppmvd @ 15% O_2 as CH_4	2	2	2	2	2	2	2	2	2	2	2	2	2	2
UHC, lb _m /hr as CH ₄	6.4	5.2	4.0	3.3	6.5	5.2	4.0	3.1	6.5	5.2	6.3	4.9	3.8	3.1
Particulate Matter (PM ₁₀ or PM _{2.5}), lb _m /hr	10.0	8.3	7.0	6.1	10.3	8.1	6.8	5.7	10.1	8.1	9.7	7.6	6.4	5.6
CO ₂ , Ib _m /hr	301,500	245,754	190,061	158,818	304,923	244,641	189,061	147,198	303,189	244,868	293,163	230,072	178,319	146,691

NOTES:

- All data is ESTIMATED, NOT guaranteed and is for ONE unit.

- Fuel gas composition, by moles, is: 89.633% CH, 8.289% C₂H₆, 0.348% C₃H₈, 0.006% i-C₄H₁₀, 0.011% n-C₄H₁₀, 0.001% i-C₅H₁₂, 0.001% n-C₅H₁₂, 1.323% N₂, 0.388% CO₂, and assumes 0.2 grains S/100 SCF.

- Gas fuel must be in compliance with the Siemens Gas Fuel Specification.

- NO_X and CO /VOC based on the use of Low Load CO hardware (LLCO) for Cases 4, 8, and 14.

- Stack NO_X and CO assume the use of an SCR and oxidation catalyst, respectively.
- VOC consist of total hydrocarbons excluding methane and ethane and are expressed in terms of methane (Ct).
- Particulates are per US EPA Method 5 and 202 (front and back half), and consist of either all PM₀ or all PM_{2.5} (one or the other, the difference cannot be accurately determined, and the values given are not additive).
- CO₂ is calcualted based on 40CFR75 Appendix G, Equation G-4, with the standard E value of 1,040.
- Emissions exclude ambient air contributions and assume steady-state conditions.

- Please be advised that the information contained in this transmittal has been prepared and is being transmitted per customer request specifically for information purposes only.

Data included in any permit application or Environmental Impact Statement are strictly the customer's responsibility. Siemens Energy is available to review permit application data upon request.

GTG Performance Data Sheet																								
F-Class Turbine																								
	0																							
And the top to the Transcenters	Case #	1	2	3	4	5	6	7	8	9	10	11	12	13	14									
Ambient Dry Bulb Temperature	F %	11.0	11.0	11.0	11.0	59.0	59.0	59.0	59.0	59.0	59.0	85.0	85.0	85.0	85.0									
Ambient Relative Humidity		70%	70%	70%	70%	60%	60%	60%	60%	60%	60%	65%	65%	65%	65%									
Ambient Wet Bulb Temperature	F ft	9.4	9.4	9.4 790	9.4	51.4	51.4 790	51.4 790	51.4 790	51.4 790	51.4	75.4	75.4	75.4 790	75.4									
Altitude Ambient Pressure		790 14.28	790 14.28	14.28	790 14.28	790 14.28	14.28	14.28	14.28	14.28	790 14.28	790 14.28	790 14.28	14.28	790 14.28									
Inlet Conditioning Operating Status	psia	0FF	0N	14.28 ON	14.26 ON	0FF	0FF	0FF																
Evaporative Cooler Effectiveness		90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%									
Evaporative Cooler Effectiveness	in H2O	90% 3.2	90% 2.3	90% 1.6	90% 1.2	90% 3.8	2.4	90% 1.7	90% 1.2	90% 3.6	90% 2.3	90% 3.6	90% 2.3	90% 1.6	90% 1.2									
	III H20	3.2	2.3	1.0	1.2	3.0	2.4	1.7	1.2	3.0	2.3	3.0	2.3	1.0	1.2									
	M-1.0/	00.0000/	00.000%	00.000%	00.000%	00.000%	00.0000/	00.000%	00.0000/	00.000%	00.000%	00.000%	00.000%	00.000%	00.0000/									
CH4	Mol %	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%	89.633%									
C2H6 C3H8	Mol % Mol %	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%	8.289% 0.348%									
i-C4H10	Mol %	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%	0.006%									
n-C4H10 i-C5H12	Mol % Mol %	0.011% 0.001%	0.011% 0.001%	0.011% 0.001%	0.011% 0.001%	0.011% 0.001%	0.011%	0.011% 0.001%	I-C5H12 n-C5H12	Mol %	0.001%	0.001%	0.001%	0.001%	0.001%	0.001% 0.001%	0.001%	0.001%	0.001%	0.001%	0.001%	0.001%	0.001%	0.001%
n-C5H12 n-C6H14	Mol %	0.001%	0.001%	0.001%	0.001%	0.001%	0.001%	0.001%	0.000%	0.001%	0.001%	0.001%	0.001%	0.001%	0.001%									
N2	Mol %	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%	1.323%									
NZ CO2	Mol %	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%	0.388%									
002	grain/100 SCF	1.0	1.0	1.0	1.0	0.366%	0.306%	1.0	1.0	0.366% 1.0	1.0	0.366%	0.300% 1.0	1.0	0.300% 1.0									
Total Sulfur (Maximum) Fuel LHV (Btu/lb)	Btu/lbm	20,680	20.680	20,680	20,680	20,680	20,680	20.680	20,680	20.680	20,680	20.680	20.680	20,680	20.680									
GAS TURBINE PERFORMANCE (per GTG)	Blu/IDM	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000									
	%	400%	750/	E00/	MECI	400%	750/	E00/	MECH	100%	750/	100%	760/	E00/	MECI									
Gas Turbine Load Gas Turbine Gross Electrical Output	% kW	100% 265464	75% 198531	50% 131472	MECL 95793	100% 265401	75% 198479	50% 131424	MECL 84787	100% 265411	75% 198482	100% 249744	75% 179274	50% 118575	MECL 84116									
Gas Turbine Gross Electrical Output Gas Turbine Auxiliary Load	kW	205404 120	120	131472	95793 120	120	196479	131424	04707 120	120	190482	249744 120	179274	110575										
Gas Turbine Auxiliary Load Gas Turbine Net Electrical Output	kW	265344	198411	131352	95673	265281	198359	131304	84667	265291	198362	249624	179154	118455	120 83996									
Gas Turbine Fuel Input (LHV)	MMBtu/hr	2,231	1.814	1,404	1,174	2,255	1,803	1,395	1.087	2.242	1,805	2,158	1,686	1,308	1,077									
Fuel Gas Temperature	F	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0									
Gas Turbine Gross Heat Rate (LHV)	Бtu/kWh	5,849	6,039	6,476	6,866	5,786	5,915	6,331	6,828	5,775	5,933	5,781	5,964	6,384	6,773									
Gas Turbine Net Heat Rate (LHV)	Btu/kWh	5,852	6,043	6,483	6,874	5,789	5,919	6,338	6,838	5,779	5,937	5,784	5,968	6,391	6,782									
System Power Factor	Dtu/KWII	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0,762									
GAS TURBINE EXHAUST CONDITIONS @ GAS TURBINE EXHAUST FI		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
Gas Turbine Exhaust Loss (total)	inH2O	20.9	15.0	10.6	8.2	22.5	14.8	10.4	7.3	21.8	14.7	20.9	13.6	9.6	7.3									
Gas Tuiblile Exilatist Loss (total)	IIInzo																							
Gas Turbine Exhaust Loss (static)	inH2O	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG	Typical 3-Pressure HRSG										
Sub Farbino Exitator Esso (stato)		w/ CO & SCR Catalysts	CTG Exhaust Flow	lb/hr	4549029	3786613	3163981	2786163	4685007	3698616	3081525	2582427	4615608	3703270	4478250	3526357	2939501	2560442						
CTG Exhaust Temperature	F	1104	1129	1129	1129	1125	1180	1180	1180	1124	1173	1144	1198	1198	1198									
Exhaust Gas Specific Heat	Btu/lbm/F																							
Exhaust Energy	MMBtu/hr																							
Gas Turbine Exhaust Gas Analysis																								
CTG Exhaust Argon	%wt	0.89	0.89	0.90	0.90	0.88	0.88	0.89	0.89	0.88	0.88	0.87	0.87	0.87	0.87									
CTG Exhaust Nitrogen	%wt	74.9	75.0	75.2	75.3	74.3	74.3	74.5	74.7	74.1	74.1	72.8	73.1	73.3	73.4									
CTG Exhaust Oxygen	%wt	12.1	12.3	12.9	13.4	12.1	12.0	12.6	13.2	11.9	11.9	11.7	11.8	12.4	12.9									
CTG Exhaust Carbon Dioxide	%wt	4.1	4.0	3.7	3.5	4.1	4.1	3.8	3.5	4.1	4.1	4.1	4.0	3.7	3.5									
CTG Exhaust H2O	%wt	8.0	7.8	7.2	6.9	8.7	8.8	8.2	7.7	9.0	9.0	10.6	10.2	9.7	9.3									
Exhaust Gas Molecular Weight	%wt	28.5	28.5	28.5	28.5	28.4	28.4	28.4	28.4	28.4	28.3	28.2	28.2	28.2	28.3									
Gas Turbine Exhasut Emissions (per GTG, Corrected to 15% O2)																								
CO @ 15% O2	ppmvd	4	4	9	9	4	4	9	9	4	4	4	4	9	9									
NOx @ 15% O2	ppmvd	15	15	15	15	15	15	15	15	15	15	15	15	15	15									
VOC @ 15% O2	ppmvd	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
UHC @ 15% O2	ppmvd	2	2	2	2	2	2	2	2	2	2	2	2	2	2									
PM10 or PM2.5 (front and back half)	lb/hr	9.7	8.1	6.8	6.0	9.9	7.8	6.5	5.5	9.8	7.8	9.4	7.4	6.2	5.4									
CO2 Emissions	lb/hr	302629	246062	190472	159270	305906	244670	189265	147512	304189	244951	292719	228812	177525	146185									

APPENDIX H – CAPITAL COST ESTIMATES

CLASS 4 CAPITAL COST ESTIMATE EKPC OPTION SUMMARY KENTUCKY BMcD #157787										
Acct	Area / Discipline)	214 MW RICE Liberty	Total Cost 3x SCGT Tygarts Creek	5x SCGT Smith	2x1 CCGT Cooper	2x1 CCGT Smith	3x1 CCGT Tygarts Creek		
	Total Direct Cos	st	\$301,000,000	\$360,000,000	\$668,000,000	\$681,000,000	\$725,000,000	\$1,016,000,000		
Enginee	ering, CM/CI and	Startup	\$48,000,000	\$90,000,000	\$130,000,000	\$148,000,000	\$175,000,000	\$210,000,000		
Total In	ndirect Cost		\$48,000,000	\$96,000,000	\$130,000,000	\$148,000,000	\$175,000,000	\$210,000,000		
Total D	irect and Indirec	t Costs	\$349,000,000	\$456,000,000	\$798,000,000	\$829,000,000	\$900,000,000	\$1,226,000,000		
Conting	ency and Escalat	on	\$92,000,000	\$217,000,000	\$377,000,000	\$409,000,000	\$441,000,000	\$593,000,000		
Total Project Cost			\$441,000,000	\$673,000,000	\$1,175,000,000	\$1,238,000,000	\$1,341,000,000	\$1,819,000,000		
Owner (Cost - General, Ta	axes & Fees	Excluded	Excluded	Excluded	Excluded	Excluded	Excluded		
Owner Cost - Builders Risk Insurance			\$9,000,000		\$21,000,000	. , ,	. , ,			
-	Cost - Transmissi	on	Excluded	Excluded	Excluded	Excluded	Excluded	Excluded		
Owner Cost - Gas Line			Excluded	Excluded	Excluded	Excluded	Excluded	Excluded		
Owner Cost - Land Acquisition			Excluded	Excluded	Excluded	Excluded	Excluded	Excluded		
Owner Cost - Fuel			Excluded	Excluded	Excluded	Excluded	Excluded	Excluded		
Owner Cost - Demolition Allownace			Excluded	Excluded	\$4,000,000	. , ,	. , ,			
Owner Cost - Owner Contingency			Excluded	Excluded	Excluded	Excluded	Excluded	Excluded		
Total D	roject Cost Incl.	Owner Cest	\$450,000,000	\$695,090,000	\$1 200 000 000	\$1,253,000,000	\$1,370,000,000	\$1.852.000.000		
Total P	roject Cost Incl.	Including Escalation \$/KV						. , . , , ,		
Revisio	n 0 - 08/01/23	No Escalation \$/KV			. ,		\$1,851			