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Witness: Mayo

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- Q-6. If Section 5.0, Noise Assessment, was based on a separately documented study, provide a complete copy of that study.
- A-6. Information was provided to IMPA and IMEA by LG&E and KU. Section 5.0, Noise Assessment, was developed concurrently with the Site Assessment Report by Black & Veatch. There is no separately documented noise study.

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- Q-7. Supplement the map showing the location of facility buildings and other structures by adding the existing or proposed transmission lines.
- A-7. Please see the attached PDF drawing entitled DRW-PTP-1235.pdf provided to IMEA and IMPA by LG&E and KU.



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Q-8. Supplement the description of utility service to the site (Section 2.6) as follows:

- a. Provide more information on how contractors are expected to provide water and wastewater service during construction.
- b. Indicate the source of potable water after plant operations commence.
- c. Indicate the source of natural gas for the site after plant operations commence.
- d. Indicate the source of electricity, for plant use, after plant operations commence.
- A-8. a. Based on information provided by LG&E and KU to IMEA and IMPA, LG&E will provide reasonable quantities of potable, construction, service, and demineralized water to the contractor during construction. Potable water will be provided via the existing connection to the Trimble County Water District. It is anticipated that construction water will be provided from one of two wells located onsite. Service and demineralized water will be provided to the contractor by LG&E from the existing TC1 systems during testing and startup activities at mutually agreed connections to be determined. The contractor is responsible for providing temporary sanitary services via Port-O-Lets for craft labor. The contractor has the option to connect to the Trimble County Station's existing waste water treatment facility from its field administration offices.

The contractor is responsible for obtaining all required local and state permits and making the physical connections for all of these services.

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- b. Once TC2 is operational, potable water will be supplied via the existing connection to the Trimble County Water District.
- c. The Trimble County Station is connected to the Texas Gas mainline at the Bedford City Gate. This connection provides natural gas to the station's six combustion turbines only. TC2 will not be connected to the natural gas line and will use the same secondary fuel source as TC1 (fuel oil).
- d. During normal operations, power for unit auxiliaries will be provided via the unit auxiliary system. The unit auxiliary system is connected to the generator on the low voltage side of the Generator Step Up transformer. During an outage, power for the plant and unit auxiliaries is provided by the reserve auxiliary system. The reserve auxiliary system is powered externally from the unit by the 138kV substation.

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- Q-9. Will access control and security at the site need to be increased during construction to handle the large volume of temporary workers and materials shipments? If yes, indicate how the current access controls will be modified to accommodate these demands.
- A-9. Based on information provided to IMEA and IMPA by LG&E and KU the answer is yes. The plant perimeter is fenced and site access is via several vehicle and personnel gates. Currently, site access for personnel and material deliveries is through the main plant gate off Ky Hwy 1838 (Gate 1). Gate 1 is staffed at all times by Moore Security personnel. Those who do not have valid ID card swipe access through Gate 1 must be processed through the gate by security guards. Site security is augmented by the use of remote security cameras which provide video images of various plant locations back to the main guard station.

Increased personnel and materials traffic will be handled in much the same way it was handled during construction of TC1 during the 1980's and the TC1 Selective Catalytic Reduction unit and six combustion turbines (TC 5, 6, 7, 8, 9 and 10) during the last several years. Site access for temporary workers and materials shipments associated with the TC2 project will be processed through other existing gates. Parking for the majority of construction personnel is outside the security fence line. They will access the site via walk through gates adjacent to these parking lots. Separate gate(s) will be set up to process receiving of equipment and materials. Large equipment and material shipments will be received via the barge unloading facility on the southwest corner of the plant site where practical. It is anticipated that Moore Security staff will fluctuate in proportion with the number of temporary construction workers and that an increase in the number of security cameras is to be expected.

Additional physical security measures may also be required. Once construction plans are determined, a security assessment will be conducted to evaluate the need for additional CCTV cameras, card access personnel gates, identification cards, and the like to supplement the site security officers in providing the appropriate level of security and monitoring.

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- Q-10. Provide a schedule indicating the projected construction workforce, by month, during project construction.
- A-10. See attached schedule provided to IMEA and IMPA by LG&E and KU. The workforce totals by month are derived from current projections of total monthly labor hours, and as such are representative of the expected workforce. These totals should not be construed as explicit headcount projections by month, and are subject to change as the total monthly labor hour projections change over time.



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- Q-11. Name the communities or general locations where you anticipate that most of the workers will reside during construction.
- A-11. Based on information provided to IMEA and IMPA by LG&E and KU, it is anticipated that the majority of workers associated with the TC2 project will reside in Louisville, LaGrange, or Carrollton, Kentucky; in Madison, Indiana; and in a number of smaller communities in close proximity to the Trimble County site (i.e. Trimble, Henry, and Carroll counties in Kentucky).

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Q-12. From where will most of the coal used at the plant be shipped?

A-12. Based on information provided to IMEA and IMPA by LG&E and KU the sourcing procedure for coal to be burned in TC2 will be the same as that used for TC1. KU/LG&E will solicit the coal industry for its overall coal requirements and after thorough review and evaluation will select the most reliable and cost effective supply of coal for generation. The TC2 unit will be capable of burning both bituminous and a limited amount of sub-bituminous coal. This will provide the flexibility to source coal from all of the major coal basins in the U.S. (including both Eastern and Western Kentucky). TC1 is currently burning coal from the Illinois and Appalachian coal basins. All coal will be delivered to the site via barge.

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Witness: Mayo

- Q-13. From where will most of the limestone used at the plant be shipped?
- A-13. Based on information provided to IMEA and IMPA by LG&E and KU TC 2 will procure its limestone in a method similar to that used for coal. A solicitation will be issued for limestone that meets the station's requirements. Once the bids are evaluated, the most reliable and cost effective supply of limestone for the Flue Gas Desulphurization system will be selected. Currently, the limestone for TC1 is sourced from Southern Indiana and arrives at the site via barge.

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- Q-14. Will the major power plant components to be shipped in, mostly by barge, come from outside Kentucky?
- A-14. Based on information provided to IMEA and IMPA by LG&E and KU the answer is yes, by virtue of the fact Kentucky is not a producer of most large power plant components, major power plant components will come from outside Kentucky. Since decisions about major equipment have not been made, specific information about major equipment origin is not currently known.

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Witness: Mayo

Q-15. Provide the highway capacities for Highway 754 and Highway 625.

A-15. Based on information provided to IMEA and IMPA by LG&E and KU those capacities are not specifically known because the focus of the study was on Highway 1838, which serves as the primary access route to the project site. However, Highways 754 and 625 are two-lane rural highways that appear to have similar geometric characteristics as Highway 1838. Therefore, it is anticipated that these roadways would have similar capacities (3,200 vph for two-way traffic and 1,700 vph for one-way traffic). Additionally, please note that the existing roads were utilized for the construction of all facilities at the Trimble County site, including TC1 during the 1980s and the TC1 Selective Catalytic Reduction unit and six combustion turbines (TC 5, 6, 7, 8, 9 and 10) during the more recent years.

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- Q-16. Section 6.2.1 indicates that "deliveries for this equipment type (heavy haul equipment) could generate an additional three to five barges during the peak (construction) delivery period." Clarify whether this means three to five barges per hour, day, week, or month.
- A-16. Based on information provided to IMEA and IMPA by LG&E and KU Section 6.2.1 should read "deliveries for this equipment type (heavy haul equipment) could generate an additional three to five barges per week during the peak (construction) delivery period."

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- Q-17. Clarify the size of the project site. Section 3.0, refers to the site containing 650 acres. Appendix A and other documents indicate the site contains over 2,100 acres.
- A-17. Based on information provided to IMEA and IMPA by LG&E and KU LG&E owns 2,100 acres at the Trimble County location, of which approximately 650 acres comprise the currently active Trimble County Generating Station.

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- Q-18. State whether any siting issues arose during the construction or operation of Trimble County Unit #1 and how those issues were resolved.
- A-18. Based on information provided to IMEA and IMPA by LG&E and KU two siting issues arose during the original construction of the Trimble County plant site. LG&E worked with the Kentucky Division of Water to relocate a portion of Corn Creek on the north end of the property and with the Kentucky Department of Transportation to relocate a portion of Corn Creek Road to the east side of the plant.

Other siting issues arose as a result of certain one-time events at the Trimble County site. These one-time events resulted in odor, noise, and light issues. Complaints were received regarding (i) a temporary combustion odor resulting from some smoldering coal in a small area of the coal pile; (ii) the temporary noise associated with the steam blow during the commissioning process for TC1; and (iii) the direction of a beam of light from a windsock light fixture. No action was taken on items (i) and (ii) as the causes were short-lived (although for item (ii), the referenced steam blows were conducted only during normal day-time hours to limit noise issues where possible); for item (iii), the light fixture was repositioned.

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- Q-19. Describe any complaints received from local or state entities related to Trimble County Unit #1. Are you aware of any current concerns about visual, noise, traffic, or property value effects?
- A-19. Based on information provided to IMEA and IMPA by LG&E and KU the Companies are not aware of any complaints received from any state entities related to TC1 or related to the construction phase of the TC1, SCR and combustion turbines (TC 5, 6, 7, 8, 9, and 10).

Likewise, there have been no complaints received from local entities about visual or noise effects related to TC1. Property value effects were addressed in Section 4 of the Site Assessment Report. The only concern voiced by local entities has been with respect to the approximately 6 miles of Ky Hwy 754 which runs from US 42 to the plant site. The concern raised has to do with the condition of the road and its suitability for truck traffic.

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- Q-20. What is the distance between the closest boundary of the site and the nearest home in Wises Landing? How many homes are located in Wises Landing?
- A-20. Based on information provided to IMEA and IMPA by LG&E and KU the distance between the closest site boundary and the nearest home in Wises Landing is approximately 135 feet. The distance between the TC2 site and the same home in Wises Landing is approximately 3000 feet. There are approximately 37 homes located in Wises Landing.

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- Q-21. Is there any relationship between the plant, or the plant's owners, and the community of Wises Landing? (E.g., is Wises Landing a "company town"?)
 - a. Do the homes in Wises Landing generally pre-date development of Trimble County Unit #1?
 - b. Provide a map showing the location of residences around the plant site, excluding Wises Landing.
- A-21. Based on information provided to IMEA and IMPA by LG&E and KU there are several former LG&E employees residing in Wises Landing, but it would not be characterized as a "company town."
 - a. Most of the dwellings in Wises Landing pre-date construction of TC1.
 - b. An aerial map of the plant site and surrounding area along with a corresponding listing of resident names and addresses was filed by the Joint Applicants in response to the Staff's first data request. That map filed on July 8, 2005 is incorporated by reference.

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- Q-22. Provide a paper copy and electronic file copy of the color map entitled "Trimble County PSI Interconnection 345 KV Line."
- A-22. The draft color map discussed at the March 28, 2005 site visit, which is based on information provided to IMEA and IMPA by LG&E and KU is attached. Please note this is a preliminary, draft document subject to change.

