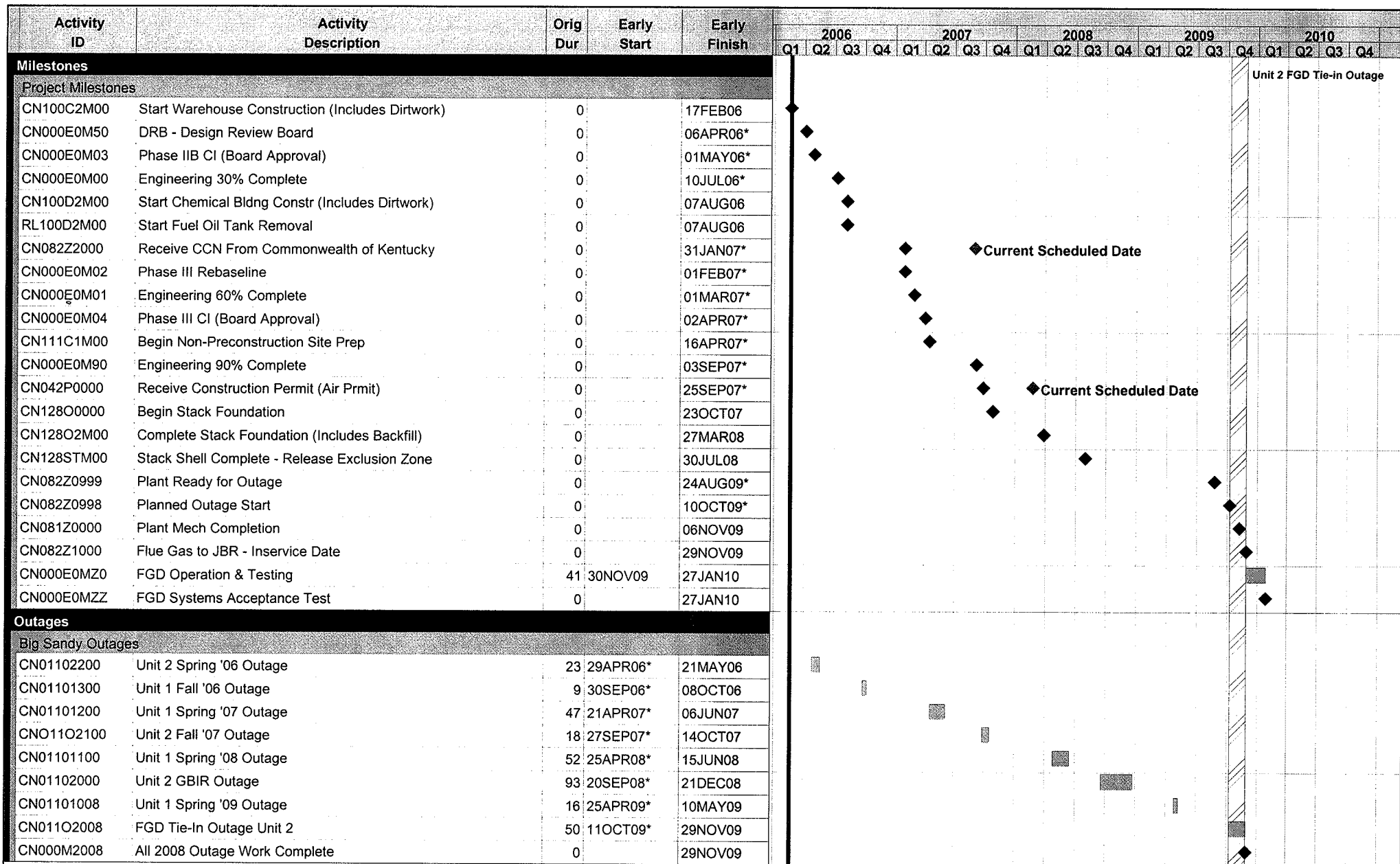




Start Date 30JUN03
 Finish Date 27JAN10
 Data Date 20FEB06
 Run Date 27FEB06 16:45

Early Bar
 LDD Bar
 Progress Bar

BSL2

Sheet 1 of 9

American Electric Power

Big Sandy Unit #2 FGD

Level II Schedule

Date	Revision	Checked	Approved

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006				2007				2008				2009				2010			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Pre-Construction Activities																								
Preconstruction - Before CCN																								
CN100D1000	Mobilize Preconstruction Building Contractor	0		07AUG06*																				
CN100C2300	New Construction Admin Building	145	08AUG06	05MAR07																				
CN113C0000	Upgrade Access Road to Fly Ash Pond	70	08AUG06	14NOV06																				
RL100D2100	Fuel Tank Demo	35	08AUG06	26SEP06																				
CN111D2060	Parking Lot Upgrade	65	08AUG06	07NOV06																				
CN111D2030	Grading and Drainage	60	08AUG06	31OCT06																				
CN100D2200	Construct Chem Storage Bldg	59	08AUG06	30OCT06																				
CN100D2210	Railroad & Building Demolition	45	08AUG06	10OCT06																				
CN111D2040	Drainage System Restoration	45	08AUG06	10OCT06																				
CN111D2020	Laydown Area	45	15AUG06	17OCT06																				
CN076E0000	Install Temp Construction Fiber Optics	45	29AUG06	31OCT06																				
CN100D2000	New Warehouse (Bub-Arena)	80	06SEP06	29DEC06																				
CN117C0000	Guardhouse, Gate and Perimeter Fencing	19	06SEP06	02OCT06																				
CN100D3000	Bub-Arena Phone & Data Relocation	20	06SEP06	03OCT06																				
RL100D2200	F.O. Tank Dike Area Restoration	35	27SEP06	14NOV06																				
CN100D2030	Relocate Warehouse (Bub-Arena)	65	04OCT06	08JAN07																				
CN584M0000	Install Construction Potable Water	35	31MAY07	19JUL07																				
Preconstruction - After CCN																								
CN683E0000	Install Security Camera Additions	65	01FEB07	02MAY07																				
CN076E1000	Install Construction Power	65	01MAR07	30MAY07																				
CN640EP000	Expand 138kV Switchyard	87	01MAR07	29JUN07																				
690EP000	Control Panel Upgrade	23	01MAR07	02APR07																				
Engineering																								
General Engineering																								
ME022M1000	Develop Sys Descriptions and P&IDs	45	20FEB06	21APR06																				
ME024C1000	Develop Site Plan/General Arrangement	20	20FEB06	17MAR06																				
ME023E0000	Develop One Line Drawings	20	20FEB06	17MAR06																				
Excavation/Piling/Foundation U/G Utilities Constr																								
ME188S1000	Develop Equipment/Tank Foundation Drawings	140	09NOV06	29MAY07																				
ME168E1000	Develop Ductbank Drawings	120	05DEC06	23MAY07																				
ME674E1000	Develop Grounding Drawings	100	05DEC06	25APR07																				
ME591M1000	Develop U/G Piping Drawings	100	04JAN07	23MAY07																				
General Mechanical Construction																								
ME031M1000	Develop Mechanical Equipment Specifications	100	24APR06	13SEP06																				
ME595M1000	Develop A/G Piping Drawings	140	18JAN07	02AUG07																				
ME028M1000	Develop Equipment Setting Plans	80	05MAR07	22JUN07																				
JBR Construction (Black & Veatch)																								
BV691EP000	B&V Issue I/O List & Control Logics	0		03AUG06*																				
BV021MP000	B&V Issue Final Flow Model Test Results	0		02JAN07*																				
BV024SP000	B&V Issue Final Foundation Loads	0		31JAN07*																				
BV023EP000	B&V Issue Final PFD's & Electrical Loads	0		28FEB07*																				

◆◆Current Scheduled Date

◆◆Current Scheduled Date

◆◆Current Scheduled Date

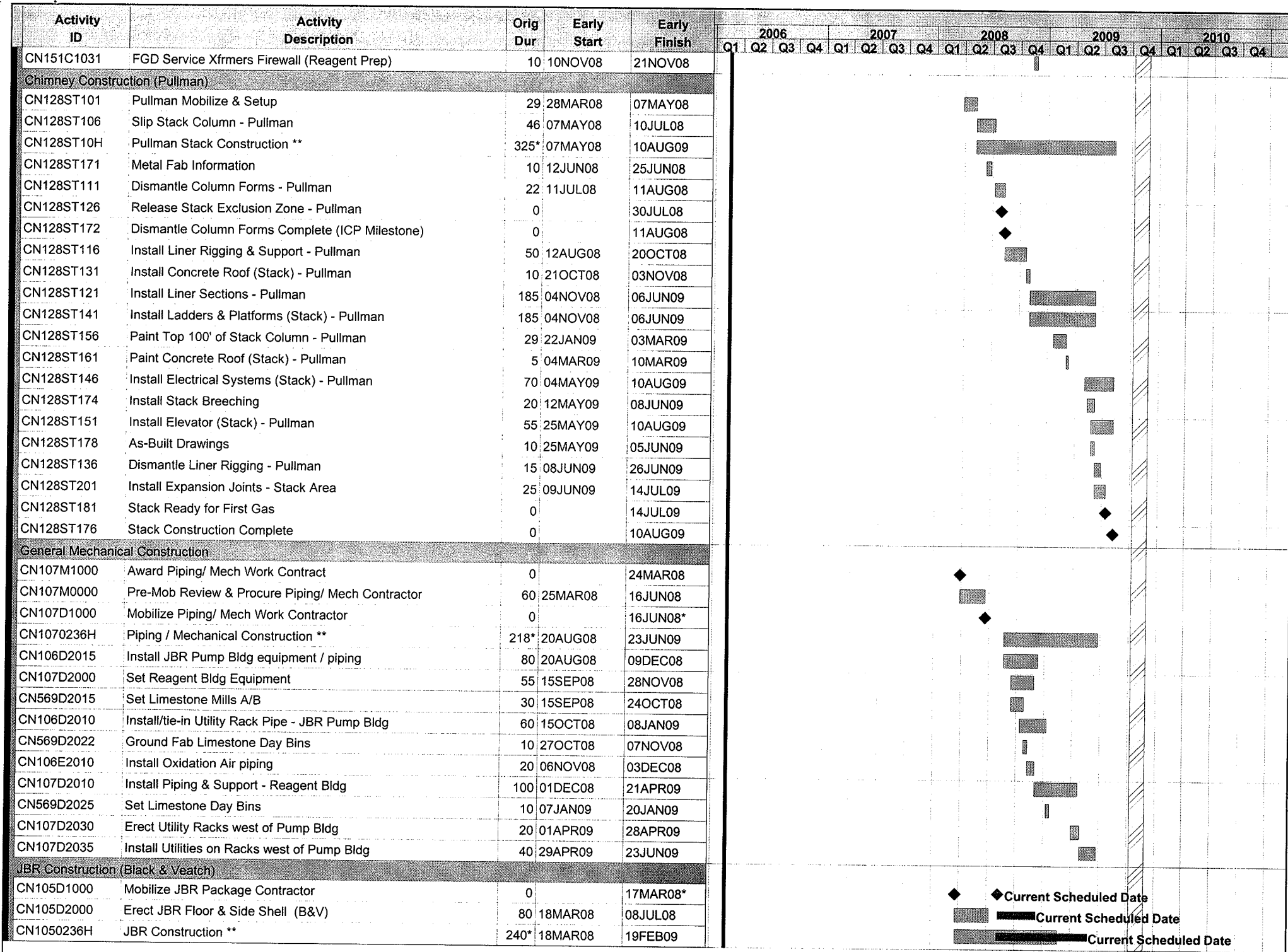
◆◆Current Scheduled Date

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- ◆◆ Current Scheduled Date
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- ◆◆ Current Scheduled Date

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006				2007				2008				2009				2010			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
BV022EP000	B&V Issue Final Arrangement Drawings	0		30MAR07*					◆	◆	◆ Current Scheduled Date													
General Electrical Construction																								
ME691E1000	Develop DCS Logic Diagrams	180	22SEP06	06JUN07																				
ME031E1000	Develop Electrical Equipment Specifications	120	20OCT06	11APR07																				
ME028E1000	Develop Electrical Equipment Arrangement Dwgs	100	10JAN07	29MAY07																				
ME672E1000	Develop Cable Tray Layout Drawings	100	04APR07	22AUG07																				
ME639E1000	Develop Instrument List and Location Drawings	160	12APR07	22NOV07																				
ME672E2000	Develop Conduit Layout Drawings	100	02MAY07	19SEP07																				
ME610E1000	Develop Elementary Wiring Diagrams	140	27JUN07	11JAN08																				
ME681E1000	Develop Site Lighting Drawings	100	27JUN07	14NOV07																				
ME682E1000	Develop Communication Drawings	100	27JUN07	14NOV07																				
ME610E2000	Develop Interconnection Wiring Diagrams	140	23AUG07	07MAR08																				
Buildings & Structural Steel Erection																								
ME179S2000	Develop Building Specifications	100	09NOV06	03APR07																				
ME158S0000	Develop Structural Steel Specification	100	07DEC06	27APR07																				
ME179S1000	Develop Building General Arrangements	100	07FEB07	26JUN07																				
ME158S1000	Develop Utility Bridge Drawings	80	05MAR07	22JUN07																				
Limestone Handling Construction																								
ME245M0000	Develop Limestone Handling Equipment Spec	100	05DEC06	25APR07																				
ME245M1000	Develop Limestone Handling GA and Flow Diagram	100	05DEC06	25APR07																				
ID Fans & Ductwork Construction																								
ME239M0000	Develop ID Fan Specification	60	03JAN07	27MAR07																				
ME239M1000	Develop Flue Gas Ductwork Specification	60	03JAN07	27MAR07																				
ME239S0000	Develop Ductwork Support Steel Drawings	80	28MAR07	18JUL07																				
Switchyard Construction																								
ME640E1000	Develop 138kV Wiring Diagrams	60	04JAN07	28MAR07																				
ME640E0000	Develop Substation Transformer Specification	80	01FEB07	23MAY07																				
ME165S0000	Develop Substation Foundation Drawings	100	06JUL07	22NOV07																				
Field Erected Tank Construction																								
ME587M0000	Develop Field Erected Tank Specification	100	24APR06	13SEP06																				
ME587M1000	Develop Field Erected Tank Layouts	100	24APR06	13SEP06																				
Fire Protection Construction																								
ME523M0000	Develop Fire Protection Specification	40	02MAY07	26JUN07																				
ME523M1000	Develop Fire Protection Coverage Drawings	100	27JUN07	14NOV07																				
Painting Construction																								
ME198A0000	Develop Painting Specification	40	03AUG07	27SEP07																				
Final Site Improvements & Paving																								
ME112C0000	Develop Final Grading/Paving Drawings	100	23AUG07	11JAN08																				
Procurement																								
Excavation/Piling/Foundation U/G Utilities Constr																								
ME125EP000	Bid/Eval/Award Exc/Fnd & U/G Piping Contract	105	15FEB07	12JUL07																				
General Mechanical Construction																								
ME590EP000	Bid/Eval/Award/Receive Pumps	180	14SEP06	29MAY07																				

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006				2007				2008				2009				2010			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
ME590EP100	Bid/Eval/Award/Receive Valves & Specialties	150	20OCT06	23MAY07																				
ME031EP000	Bid/Eval/Award Mechanical Construction Contract	105	03AUG07	28DEC07																				
BV245EP100	B&V Deliver Reagent Prep Equipment	0		12SEP08*																				
BV263EP000	B&V Deliver Oxidation Air Blowers	0		06OCT08*																				
BV245EP000	B&V Deliver Limestone Day Bins	0		24OCT08*																				
JBR Construction (Black & Veatch)																								
BV263EP200	B&V Deliver Gas Cooler	0		02JUL08*																				
BV263EP100	B&V Deliver Mist Eliminators	0		01OCT08*																				
General Electrical Construction																								
ME613EP000	Bid/Eval/Award/Receive MCCs/Switchgear	250	12APR07	31MAR08																				
ME691EP000	Bid/Eval/Award/Receive DCS Equipment	300	06JUL07	02SEP08																				
ME639EP000	Bid/Eval/Award/Receive Instruments	140	23NOV07	09JUN08																				
ME028EP000	Bid/Eval/Award Electrical Construction Contract	105	06DEC07	02MAY08																				
Buildings & Structural Steel Erection																								
ME179EP000	Bid/Eval/Award Building & Struc Steel Contract	105	04APR07	29AUG07																				
ME158EP000	Bid/Eval/Award/Receive Structural Steel	230	05JUL07	23MAY08																				
Limestone Handling Construction																								
ME245EP000	Bid/Eval/Award Limestone Handling Contract	105	01FEB07	27JUN07																				
ID Fans & Ductwork Construction																								
ME239EP100	Bid/Eval/Award/Receive ID Fans & Ancillaries	240	28FEB07	01FEB08																				
ME239EP200	Bid/Eval/Award/Receive Flue Gas Ductwork	180	28MAR07	05DEC07																				
ME239EP000	Bid/Eval/Award ID Fan & Ductwork Erect Contract	105	25OCT07	21MAR08																				
Switchyard Construction																								
ME640EP000	Bid/Eval/Award/Receive Main Station Transformers	280	24MAY07	23JUN08																				
ME640EP100	Bid/Eval/Award Switchyard Contractor	105	03AUG07	28DEC07																				
Field Erected Tank Construction																								
ME587EP000	Bid/Eval/Award Field Erected Tanks Contract	105	20JUN06	15NOV06																				
Fire Protection Construction																								
ME523EP000	Bid/Eval/Award Fire Protection Contract	105	15NOV07	11APR08																				
Painting Construction																								
ME198EP000	Bid/Eval/Award Painting Contract	105	28SEP07	25FEB08																				
Final Site Improvements & Paving																								
ME112EP000	Bid/Eval/Award Site Improvements Contract	105	14JAN08	06JUN08																				
Construction																								
Site Preparation & Temp Construction Facilities																								
CN111C1000	Mobilize Site Prep Contractor	0		16APR07*																				
CN111D2000	Prep/Rough Grade Site	150	01MAY07*	27NOV07																				
CN1110236H	Site Prep Construction **	150*	01MAY07	27NOV07																				
CN111D2010	Install Drainage & Remaining U/G Utilities	130	29MAY07	27NOV07																				
Excavation/Piling/Foundation U/G Utilities Constr																								
CN125E1000	Award Excavation/Foundation Contract	0		31JUL07																				
CN125S0000	Pre-Mob Review/Procure - Excavate/Fnd Contractor	40	01AUG07	25SEP07																				
CN125S1000	Mobilize Excavation/Foundation Contractor	0		25SEP07*																				

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006				2007				2008				2009				2010			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CN128O2305	Excavate for existing U/G Utilities - Stack/JBR	5	26SEP07	02OCT07																				
CN128O236H	Stack Foundation **	130*	26SEP07	27MAR08																				
CN128O2310	Relocate existing U/G Utilities - Stack area	10	03OCT07	16OCT07																				
CN125C1000	Excavate JBR area & relocate U/G Utilities	30	17OCT07	27NOV07																				
CN128O2315	Backfill existing U/G Utilities - Stack Area	5	17OCT07	23OCT07																				
CN1250236H	JBR Area Foundations **	225*	17OCT07	29AUG08																				
CN128O2320	Excavate for Stack Foundation	5	24OCT07	30OCT07																				
CN128O2325	Install Piling for Stack Foundation	45	31OCT07	03JAN08																				
CN125C1002	Install Piling for JBR Foundation	35	28NOV07	17JAN08																				
CN125C1005	Form/Rebar/Pour JBR Foundation	50	04JAN08	13MAR08																				
CN128O2330	Pour Lean Mat - Stack	2	04JAN08	07JAN08																				
CN128O2335	Form/Rebar/Pour Stack Foundation	43	08JAN08	06MAR08																				
CN125C1020	Form/Rebar/Pour JBR Pump Bldg Foundation	40	29FEB08	24APR08																				
CN125C1010	Install U/G Piping JBR Pump Building	20	29FEB08	27MAR08																				
CN128O2345	Water Cure & Remove Stack Fnd Forms	10	07MAR08	20MAR08																				
CN2390236H	Fan & Duct Foundations **	140*	14MAR08	26SEP08																				
CN239C1025	Excavate ID Fans & relocate U/G Utilities	10	14MAR08	27MAR08																				
CN128O2350	Backfill Stack Foundations	5	21MAR08	27MAR08																				
CN128O2R91	Stack Fnd Released to Stack Erector	0		27MAR08																				
CN5690236H	Reagent Prep Area Foundations **	200*	28MAR08	06JAN09																				
CN569C1000	Install U/G Piping Reagent Prep Area	35	28MAR08	15MAY08																				
CN569C1005	FRP Reagent Prep Area Foundations	70	25APR08	01AUG08																				
CN151C1010	Form/Rebar/Pour JBR Tank Fnd - Makeup Water	60	25APR08	18JUL08																				
CN239C1000	Form/Rebar/Pour West ID Fan Foundations	40	25APR08	19JUN08																				
CN151E1000	Install U/G Piping Elec/Control Building	15	30MAY08	19JUN08																				
CN239C1010	Duct Support ID Fans to Unit 2 Foundations	30	20JUN08	01AUG08																				
CN239C1005	Form/Rebar/Pour East ID Fan Foundations	50	20JUN08	29AUG08																				
CN151E1005	Elect/Control Bldg Foundation	25	27JUN08	01AUG08																				
CN151C1015	Pipe Trench to Pump Bldg	30	27JUN08	08AUG08																				
CN125C1015	JBR Foundation Released to JBR Erector	0		30JUL08																				
CN125C1030	Oxidation Air Blower Foundations	20	31JUL08	27AUG08																				
CN569C1015	Reagent Prep Tank Fnds-Reagent Strg. Rehydration	30	04AUG08	12SEP08																				
CN569C1020	Reagent Prep Tank Fnds north of Reagent Bldg	30	04AUG08	12SEP08																				
CN151C1020	FGD Service Xfrmr Foundations (Control Bldg)	20	04AUG08	29AUG08																				
CN125C1025	Form/Rebar/Pour Emerg Quench Pump Foundations	20	04AUG08	29AUG08																				
CN239C1015	Duct Support ID Fans to JBR Foundations	40	04AUG08	26SEP08																				
CN151C1025	Utility Rack Foundations Reagent Bldg to JBR	20	04AUG08	29AUG08																				
CN239C1020	Duct Support JBR to Stack Foundations	20	28AUG08	24SEP08																				
CN151C1021	FGD Service Xfrmers Firewall (Control Bldg)	10	01SEP08	12SEP08																				
CN569C1025	Reagent Prep Tank Fnds - Reclaim Water	20	15SEP08	10OCT08																				
CN569C1010	Limestone Area & Conveyor Foundations	60	13OCT08	06JAN09																				
CN151C1030	FGD Service Xfrmr Foundations (Reagent Prep)	20	13OCT08	07NOV08																				



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006				2007				2008				2009				2010			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Limestone Handling Construction																								
CN245M0000	Award Limestone Handling Contract	0		11JUL07																				
CN245M1000	Limestone Handling Engineering & Procurement	305	12JUL07	15SEP08																				
CN569D1000	Mobilize Limestone Handling Contractor	0		15SEP08*																				
CN5691236H	Limestone Handling Construction **	140*	22JAN09	06AUG09																				
CN569D2000	Erect Limestone Truck Unloading Facility	100	22JAN09	10JUN09																				
CN569D2005	Erect Limestone Area Conveyors & Suppt Steel	120	19FEB09	06AUG09																				
CN569D2010	Erect Limestone Tripper Deck Conveyors	40	11JUN09	06AUG09																				
ID Fans & Ductwork Construction																								
CM239M0000	Award ID Fans & Ductwork Contract	0		24MAR08																				
CM239M1000	Pre-Mob Review & Procure ID Fans & Duct Contract	60	25MAR08	16JUN08																				
CN110D1000	Mobilize ID Fans & Ductwork Contractor	0		16JUN08*																				
CN1100236H	ID Fans & Ductwork Construction **	341*	15JUL08	06NOV09																				
CN110D2000	Pre-Assemble Ductwork - Precip to ID Fan Inlet	45	15JUL08*	15SEP08																				
CN110D2025	Erect Duct/ Supports - Precip to ID Fan Inlet	30	16SEP08	27OCT08																				
CN110D2005	Pre-Assemble Ductwork - ID Fans A,B - ID Fan C,D	20	16SEP08	13OCT08																				
CN110D2010	Pre-Assemble Ductwork - ID Fan C,D to Transition	20	14OCT08	10NOV08																				
CN110D2030	Set & Align ID Fans A, B	30	28OCT08	08DEC08																				
CN110D2015	Pre-Assemble Ductwork - Transition to JBR	45	11NOV08	14JAN09																				
CN110D2035	Erect Duct/ Supports - ID Fans A,B - ID Fan C,D	20	09DEC08	07JAN09																				
CN110D2040	Set & Align ID Fans C, D	30	09DEC08	21JAN09																				
CN110D2020	Pre-Assemble Ductwork - JBR to Stack	45	15JAN09	18MAR09																				
CN110D2045	Erect Duct/ Supports - ID Fans C,D to Transition	20	22JAN09	18FEB09																				
CN110D2050	Erect Duct/ Supports - Transition to JBR	30	19FEB09	01APR09																				
CN110D2055	Erect Duct/ Supports - JBR to Stack	25	15JUL09	18AUG09																				
CN110D2060	Pre-Assemble Ductwork - Precip tie-in, LO pieces	15	04AUG09	24AUG09																				
CN110D2065	Remove Existing Duct (outage)	5	12OCT09	16OCT09																				
CN110D2070	Set Precip tie-in duct (outage)	15	19OCT09	06NOV09																				
CN110D2075	Set leave out Duct pieces (outage)	15	19OCT09	06NOV09																				
Switchyard Construction																								
CN640E0000	Award Switchyard Contract	0		08JAN08																				
CN640E1000	Pre-Mob Review & Procure Switchyard Contract	60	09JAN08	01APR08																				
CN166D1000	Mobilize Switchyard Erection Contractor	0		01APR08*																				
CN166D2000	Excavate Switchyard area	15	02APR08	22APR08																				
CN166D236H	Switchyard Construction **	265*	02APR08	10APR09																				
CN166D2005	Install Switchyard HV ductbank	25	23APR08	27MAY08																				
CN166D2010	Form, Rebar, Pour Switchyard transformer fnds	30	28MAY08	09JUL08																				
CN166D2015	Erect Switchyard blast walls	10	10JUL08	23JUL08																				
CN166D2020	Form, Rebar, Pour Switchyard Struct Fnds	20	24JUL08	20AUG08																				
CN166D2025	Erect Switchyard Structure	20	21AUG08	17SEP08																				
CN166D2030	Install HV Di-Electric (overhead switchyard)	10	18SEP08	01OCT08																				
CN166D2035	Set HV Transformers	10	02OCT08	15OCT08																				

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006				2007				2008				2009				2010			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CN166D2040	Install HV Cable Bus	10	16OCT08	29OCT08																				
CN166D2045	Trim / Oil Fill HV Transformers	20	30OCT08	26NOV08																				
CN166D2050	Cable HV Overhead Switchyard	15	27NOV08	17DEC08																				
CN166D2055	Energize Transformers w/soak	20	18DEC08	16JAN09																				
CN166D2060	Commissioning - HV Switchyard	60	19JAN09	10APR09																				
Field Erected Tank Construction																								
CN587M0000	Award Field Erected Tanks Contract	0		16MAY08																				
CN587M1000	Pre-Mob Rev & Procure Fld Erected Tanks Contract	80	19MAY08	08SEP08																				
CN109C1000	Mobilize Tank Erection Contractor	0		08SEP08*																				
CN109D2000	Erect Reagent Prep Area Field Erected Tanks	140	15SEP08	31MAR09																				
CN1090236H	Tank Erection Construction **	220*	15SEP08	22JUL09																				
CN109D2010	Apply Coating - Field Erected Tanks	80	01APR09*	22JUL09																				
Fire Protection Construction																								
CN523M0000	Award Fire Protection Contract	0		30MAY08																				
CN523M1000	Pre-Mob Review & Procure Fire Protect Contract	60	02JUN08	25AUG08																				
CN572D1000	Mobilize Fire Protection Contractor	0		25AUG08*																				
CN572D236H	Fire Protection Construction **	313*	01SEP08*	16NOV09																				
Painting Construction																								
CN198M0000	Award Painting Contract	0		02MAR09																				
CN198M1000	Pre-Mob Review & Procure Painting Contract	20	03MAR09	30MAR09																				
CN109D1000	Mobilize Painting Contractor	0		30MAR09*																				
CN109D236H	Painting Construction **	174*	01APR09*	01DEC09																				
Abestos / Lead Abatement Services																								
CN102C1000	Mobilize Asbestos/Lead Pkg for Contractor	0		02APR07*																				
Final Site Improvements & Paving																								
CN102D1000	Mobilize Site Improvement Contractor	0		02MAR09*																				
CN102D236H	Final Site Improvements Construction **	132*	29JUN09*	31DEC09																				
Site Services Support																								
CN101D1000	Mobilize Site Services Contractor	0		27NOV07																				
Site Technical Services Support																								
CN101E1000	Mobilize Site Tech Services Contractor	0		02APR07*																				
CN101E2020	Soil & Concrete Testing - Site Tech Services	367*	01JUN07*	31OCT08																				
CN101E2000	Site Technical Services supporting Construction	646*	01JUN07*	01DEC09																				
CN101E2010	FRP liner inspection - Site Technical Services	125*	04NOV08	29APR09																				
Start-up and Commissioning																								
General Mechanical Construction																								
CN096Z1000	Pre-Commission JBR Pump Sysytems	40	24JUN09	19AUG09																				
CN096Z0000	Pre-Commission Reagent Prep Systems	40	29JUN09	24AUG09																				