

CP010192 Naughton Proposal Schedule

EPC Schedule

Activity ID	Activity Name	OD	Start	Finish	2012												2013												2014											
					S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A
CP010192 Naughton Proposal Schedule																																								
Milestones																																								
1MS-03	Preliminary Loads & G/A - Flues & Baghouse	20d	19-Sep-11	14-Oct-11	Preliminary Loads & G/A - Flues & Baghouse																																			
PGLMILE20	Negotiation of Contract	0d	19-Sep-11*		◆ Negotiation of Contract																																			
1MS-00	Limited Notice to Proceed/Mobilize PGL	0d	01-Nov-11*		◆ Limited Notice to Proceed/Mobilize PGL																																			
1MS-02	NTE Loads & G/A - SCR to Perry Group	0d		01-Nov-11*	◆ NTE Loads & G/A - SCR to Perry Group																																			
PGLMILE10	Start Stack Demolition	0d	01-Nov-11		◆ Start Stack Demolition																																			
1F-530	Engineering - Overall Summary	260d	01-Nov-11	29-Oct-12	Engineering - Overall Summary																																			
PGLMILE30	B&W To Provide LPA With SCR Loads For Steel Design	0d		01-Nov-11	◆ B&W To Provide LPA With SCR Loads For Steel Design																																			
1MS-06	-0 PFDs (Process Flow Diagrams)	0d		04-Nov-11*	◆ -0 PFDs (Process Flow Diagrams)																																			
1MS-07	Final Loads to Steel	0d		11-Nov-11	◆ Final Loads to Steel																																			
1MS-04	-0 P&IDs	0d		18-Nov-11*	◆ -0 P&IDs																																			
1MS-05	-0 I/O List	0d		18-Nov-11*	◆ -0 I/O List																																			
LPAENG1010	Issue Steel Drawings For Fabrication	0d		31-Jan-12	◆ Issue Steel Drawings For Fabrication																																			
LPAENG1020	Structural Steel Design Complete	0d		31-Jan-12	◆ Structural Steel Design Complete																																			
1MS-08	Final Electrical Load List	0d		19-Mar-12*	◆ Final Electrical Load List																																			
1MS-09	-0 SRS	0d		19-Mar-12*	◆ -0 SRS																																			
PGLENG1070	Foundation Design Complete	0d		28-Mar-12	◆ Foundation Design Complete																																			
PGLMILE90	Stack Demo Complete	0d		17-Apr-12	◆ Stack Demo Complete																																			
1MS-10	-0 Functional Logic Diagrams	0d		23-Apr-12*	◆ -0 Functional Logic Diagrams																																			
1MS-11	Full Notice to Proceed	0d	01-May-12*		◆ Full Notice to Proceed																																			
PGLMILE40	Start Foundation Construction	0d	01-May-12		◆ Start Foundation Construction																																			
000100	BWCC Mobilize	0d	21-May-12*		◆ BWCC Mobilize																																			
000170	SCR Flue Foundations Complete	0d		30-Jul-12*	◆ SCR Flue Foundations Complete																																			
000110	SCR Area Foundations Complete	0d		30-Jul-12*	◆ SCR Area Foundations Complete																																			
PGLMILE80	Fluework Design Complete	0d		06-Aug-12	◆ Fluework Design Complete																																			
PGLMILE110	Switchyard Civil Sitework Prep by RMP Complete For Contractor Mob	0d		15-Aug-12*	◆ Switchyard Civil Sitework Prep by RMP Complete For Contractor Mob																																			
000130	BH Foundations Complete	0d		10-Sep-12*	◆ BH Foundations Complete																																			
000190	ID Foundations Complete	0d		05-Oct-12*	◆ ID Foundations Complete																																			
000180	BH Flue Foundations Complete	0d		30-Nov-12*	◆ BH Flue Foundations Complete																																			
PGLMILE150	Warehouse Installation Complete/Start Rework of Existing	0d		25-Mar-13	◆ Warehouse Installation Complete/Start Rework of Existing																																			
PGLMILE180	RAT, Cabling & Bldg Installation Complete to Backfeed Power	0d		18-Jul-13	◆ RAT, Cabling & Bldg Installation Complete to Backfeed Power																																			
1MS-13	Deliveries Complete (not including catalyst & Recycle Pumps)	0d		23-Dec-13	◆ Deliveries Complete (not including catalyst & R...																																			
EQ3000	Last Equipment Delivery	0d	08-Jan-14		◆ Last Equipment Delivery																																			
1MS-14	All Material Rec'd at Site (including catalyst)	0d		10-Feb-14	◆ All Material Rec'd at Site (including cataly...																																			
000150	Outage Start	0d	01-Mar-14*		◆ Outage Start																																			
PGLMILE60	Pre-Outage Completion/Start Unit 3 Outage	0d	30-Mar-14*		◆ Pre-Outage Completion/Start Unit																																			
PGLMILE70	Unit 3 Outage	56d	30-Mar-14	24-May-14	Unit 3 Outage																																			
000155	Outage Complete	0d		24-May-14	◆ Outage Complete																																			

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1GA-01	Preliminary G/A Drawing	20d	19-Sep-11	14-Oct-11	Preliminary G/A Drawing																																			
1GA-03	-0 G/A Drawing	20d	17-Oct-11	11-Nov-11	-0 G/A Drawing																																			
1GA-04	-0 G/A Drawing (review cycle)	20d	14-Nov-11	09-Dec-11	-0 G/A Drawing (review cycle)																																			
1GA-05	-1 G/A Drawing	20d	30-Jan-12	24-Feb-12	-1 G/A Drawing																																			
Flue Gas System - Economizer Outlet																																								
Flue Gas System - Economizer Outlet Flues																																								
1F-09	Economizer Outlet Flues - Engineering	60d	15-May-12	06-Aug-12	Economizer Outlet Flues - Engineering																																			
1F-06	Economizer Outlet Flues - Procurement	30d	07-Aug-12	17-Sep-12	Economizer Outlet Flues - Procurement																																			
1F-13	Economizer Outlet Flues - Fabrication	200d	18-Sep-12	24-Jun-13	Economizer Outlet Flues - Fabrication																																			
1F-08	Economizer Outlet Flues - Transit Tie-In Pcs to Site	10d	26-Feb-13	11-Mar-13	Economizer Outlet Flues - Transit Tie-In Pcs to Site																																			
001210	Erect SCR Inlet Flues & Sppt Steel	31d	04-Jun-13	08-Jul-13	Erect SCR Inlet Flues & Sppt Steel																																			
1F-11	Economizer Outlet Flues - Transit Bal. Pcs to Site	10d	25-Jun-13	08-Jul-13	Economizer Outlet Flues - Transit Bal. Pcs to Site																																			
002020	Demo flues boiler to AH (SCR Inlet & Outlet tie-in)	18d	01-Mar-14	09-Mar-14	Demo flues boiler to AH (SCR Inlet & Outlet tie-in)																																			
002070	Demo flues AH to ESP (BH Inlet tie-in)	33d	01-Mar-14	16-Mar-14	Demo flues AH to ESP (BH Inlet tie-in)																																			
002030	Build SCR inlet flues in place	35d	10-Mar-14	26-Mar-14	Build SCR inlet flues in place																																			
002040	Insulate SCR inlet flues (Sub)	45d	24-Mar-14	13-Apr-14	Insulate SCR inlet flues (Sub)																																			
Flue Gas System - Economizer Outlet Expansion Joints																																								
1EJ-11	Economizer Outlet Expansion Joints - Engineering	60d	07-Aug-12	29-Oct-12	Economizer Outlet Expansion Joints - Engineering																																			
1EJ-06	Economizer Outlet Expansion Joints - Procurement	30d	30-Oct-12	10-Dec-12	Economizer Outlet Expansion Joints - Procurement																																			
1EJ-13	Economizer Outlet Expansion Joints - Fabrication	180d	12-Dec-12	20-Aug-13	Economizer Outlet Expansion Joints - Fabrication																																			
1EJ-09	Economizer Outlet Expansion Joints - Transit to Site	10d	21-Aug-13	03-Sep-13	Economizer Outlet Expansion Joints - Transit to Site																																			
Flue Gas System - Large Particle Ash Management Equipment																																								
Flue Gas System - Ash Management Equipment Screen w/Supports																																								
1F-07	Large Particle Ash Screen - Engineering	60d	15-May-12	06-Aug-12	Large Particle Ash Screen - Engineering																																			
1F-22	Large Particle Ash Screen - Procurement	30d	07-Aug-12	17-Sep-12	Large Particle Ash Screen - Procurement																																			
1F-37	Large Particle Ash Screen - Fabrication	130d	18-Sep-12	18-Mar-13	Large Particle Ash Screen - Fabrication																																			
1F-35	Large Particle Ash Screen - Transit to Site	10d	19-Mar-13	01-Apr-13	Large Particle Ash Screen - Transit to Site																																			
Flue Gas System - SCR Outlet																																								
Flue Gas System - SCR Outlet Flues																																								
1F-01	SCR Outlet Flues - Engineering	60d	14-Nov-11	03-Feb-12	SCR Outlet Flues - Engineering																																			
1F-02	SCR Outlet Flues - Procurement	30d	27-Mar-12	07-May-12	SCR Outlet Flues - Procurement																																			
1F-03	SCR Outlet Flues - Fabrication	140d	08-May-12	19-Nov-12	SCR Outlet Flues - Fabrication																																			
1F-04	SCR Outlet Flues - Transit Tie-In Pcs to Site	10d	16-Oct-12	29-Oct-12	SCR Outlet Flues - Transit Tie-In Pcs to Site																																			
1F-05	SCR Outlet Flues - Transit Bal. Pcs to Site	10d	20-Nov-12	03-Dec-12	SCR Outlet Flues - Transit Bal. Pcs to Site																																			
001080	Erect SCR Outlet Flue Steel & Trusses	31d	04-Dec-12	07-Jan-13	Erect SCR Outlet Flue Steel & Trusses																																			
001460	SCR Outlet Flues - Installation Summary	40d	04-Dec-12	28-Jan-13	SCR Outlet Flues - Installation Summary																																			
001090	Erect SCR Outlet Flues	19d	08-Jan-13	28-Jan-13	Erect SCR Outlet Flues																																			
002050	Build SCR outlet flues in place	50d	26-Mar-14	18-Apr-14	Build SCR outlet flues in place																																			
002060	Insulate SCR outlet flues (Sub)	15d	14-Apr-14	20-Apr-14	Insulate SCR outlet flues (Sub)																																			

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Baghouse, Support Structure - Stairs, Treads, & Ladders																																								
0016	Erect BH Stair Tower	38d	09-Nov-12	20-Dec-12	Erect BH Stair Tower																																			
Particulate Removal System, Baghouse - Vacuum Cleaning System																																								
001720	BH Piping	149d	21-Jun-13	04-Dec-13	BH Piping																																			
Combustion Gas Cleanup Systems - DeNOx System																																								
Combustion Gas Cleanup Systems, DeNOx System - Ammonia Unloading, Storage, & Vaporization																																								
1SS-01	NH3 Storage & Distribution Systems - Engineering	40d	17-Oct-11	09-Dec-11	NH3 Storage & Distribution Systems - Engineering																																			
1SS-02	NH3 Storage & Distribution Systems - Procurement	40d	28-Nov-11	20-Jan-12	NH3 Storage & Distribution Systems - Procurement																																			
1SS-03	NH3 Storage & Distribution Systems - Fabrication	290d	01-May-12	10-Jun-13	NH3 Storage & Distribution Systems - Fabrication																																			
1SS-04	NH3 Storage & Distribution Systems - Transit to Site	20d	11-Jun-13	08-Jul-13	NH3 Storage & Distribution Systems - Transit to Site																																			
DeNOx System, Reagent Unloading, Storage, & Vaporization - Urea System																																								
002010	Install Urea equipment & pipe	150d	14-Jun-13	29-Nov-13	Install Urea equipment & pipe																																			
Combustion Gas Cleanup Systems, DeNOx System - Ammonia Injection Grids																																								
DeNOx System, Ammonia Injection Grids - Grid																																								
1AS-01	Ammonia Injection Grid - Engineering	60d	06-Feb-12	27-Apr-12	Ammonia Injection Grid - Engineering																																			
1AS-02	Ammonia Injection Grid - Procurement	30d	30-Apr-12	08-Jun-12	Ammonia Injection Grid - Procurement																																			
1AS-03	Ammonia Injection Grid - Fabrication	270d	12-Jun-12	24-Jun-13	Ammonia Injection Grid - Fabrication																																			
1AS-04	Ammonia Injection Grid - Transit to Site	10d	25-Jun-13	08-Jul-13	Ammonia Injection Grid - Transit to Site																																			
DeNOx System, Ammonia Injection Grids - MVS																																								
1MVS01	Manifold Valve System - Engineering	60d	06-Feb-12	27-Apr-12	Manifold Valve System - Engineering																																			
1MVS02	Manifold Valve System - Procurement	30d	30-Apr-12	08-Jun-12	Manifold Valve System - Procurement																																			
1MVS03	Manifold Valve System - Fabrication	200d	12-Jun-12	18-Mar-13	Manifold Valve System - Fabrication																																			
1MVS04	Manifold Valve System - Transit to Site	10d	19-Mar-13	01-Apr-13	Manifold Valve System - Transit to Site																																			
DeNOx System, Ammonia Injection Grids - Piping																																								
1PS-01	Piping Systems - Engineering	60d	27-Feb-12	18-May-12	Piping Systems - Engineering																																			
1PS-02	Piping Systems - Procurement	30d	21-May-12	29-Jun-12	Piping Systems - Procurement																																			
1PS-03	Piping Systems - Fabrication	80d	03-Jul-12	22-Oct-12	Piping Systems - Fabrication																																			
1PS-04	Piping Systems - Transit to Site	10d	23-Oct-12	05-Nov-12	Piping Systems - Transit to Site																																			
001480	Install SCR Piping	131d	09-Jul-13	02-Dec-13	Install SCR Piping																																			
Combustion Gas Cleanup Systems, DeNOx System - SCR Reactor																																								
1R-01	Reactor - Engineering	60d	14-Nov-11	03-Feb-12	Reactor - Engineering																																			
1R-02	Reactor - Procurement	30d	27-Feb-12	06-Apr-12	Reactor - Procurement																																			
1R-03	Reactor - Fabrication	260d	10-Apr-12	08-Apr-13	Reactor - Fabrication																																			
001010	Set-up SCR Crane Mats	19d	25-Jun-12	13-Jul-12	Set-up SCR Crane Mats																																			
001030	Set-up BH Crane on SCR Mats	6d	16-Jul-12	20-Jul-12	Set-up BH Crane on SCR Mats																																			
001040	Verify Foundations	4d	31-Jul-12	02-Aug-12	Verify Foundations																																			
001050	Erect SCR Steel Seq-1	38d	03-Aug-12	13-Sep-12	Erect SCR Steel Seq-1																																			
001430	SCR Steel Erection - Summary	217d	03-Aug-12	03-Jun-13	SCR Steel Erection - Summary																																			
001070	Erect Manitowoc 18000 at SCR	6d	14-Sep-12	20-Sep-12	Erect Manitowoc 18000 at SCR																																			
001100	Erect SCR Support Trusses & Steel	19d	29-Jan-13	18-Feb-13	Erect SCR Support Trusses & Steel																																			

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Site & Facilities - Site Preparation																																								
PGLCO	Civil Engineering	110d	01-Nov-11	11-Apr-12	Civil Engineering																																			
Site & Facilities, Site Preparation - Demolition																																								
PGLCON1	Stack Demolition	120d	01-Nov-11	16-Apr-12	Stack Demolition																																			
PGLCON1	Truck Dock Demolition	20d	15-May-12	11-Jun-12	Truck Dock Demolition																																			
1F-87	Demolition of Existing Facilities	20d	03-Feb-14	28-Feb-14	Demolition of Existing Facilities																																			
PGLOUT1	Demo Pads, Form and Pour, Cure New Pump Pads	5d	31-Mar-14	04-Apr-14	Demo Pads, Form and Pour, Cure																																			
Site Preparation, Demolition - Electrical																																								
PGLCO	Locate and Relocate Existing Utilities	30d	01-May-12	11-Jun-12	Locate and Relocate Existing Utilities																																			
Site & Facilities, Site Preparation - Evaluation																																								
Site & Facilities Surveying																																								
PGLPR	Site Survey	40d	01-Nov-11	04-Jan-12	Site Survey																																			
Site & Facilities Geotechnical Investigations																																								
PGLPR	Geotechnical Survey & Report	40d	01-Nov-11	04-Jan-12	Geotechnical Survey & Report																																			
Site & Facilities, Site Preparation - Earthwork																																								
Site Preparation, Earthwork - Excavation																																								
PGLCO	Earthwork - PJFF/Warehouse/SCR Area	40d	01-May-12	25-Jun-12	Earthwork - PJFF/Warehouse/SCR Area																																			
Site Preparation, Earthwork - Other																																								
PGLCO	Relocation of Outdoor Storage Area	40d	01-Nov-11	04-Jan-12	Relocation of Outdoor Storage Area																																			
Site & Facilities, Site Preparation - Roads & Drains																																								
PGLCON1	Temp Roads, Fencing, Gates	80d	26-Jun-12	15-Oct-12	Temp Roads, Fencing, Gates																																			
PGLCON1	Asphalt Roadways	60d	01-Aug-13*	24-Oct-13	Asphalt Roadways																																			
Site & Facilities - Foundations																																								
PGLCO	Foundation Engineering	100d	01-Nov-11	28-Mar-12	Foundation Engineering																																			
PGLCO	Issue Foundation Drawings For Construction	0d		28-Mar-12	◆ Issue Foundation Drawings For Construction																																			
Site & Facilities, Foundations - Concrete																																								
Foundations, Concrete - Foundations																																								
PGLCO	Foundations - SCR Area	40d	05-Jun-12	30-Jul-12	Foundations - SCR Area																																			
PGLCO	Foundations - PJFF/Warehouse Area	40d	17-Jul-12	10-Sep-12*	Foundations - PJFF/Warehouse Area																																			
PGLCO	Foundations - North Flue Area	20d	31-Jul-12	27-Aug-12	Foundations - North Flue Area																																			
PGLCO	Foundations - Fans/Lube Oil	40d	13-Aug-12*	05-Oct-12	Foundations - Fans/Lube Oil																																			
PGLCO	Foundations - Switchyard - RAT 3A	20d	16-Aug-12	12-Sep-12	Foundations - Switchyard - RAT 3A																																			
PGLCO	Foundations - Switchyard - RAT 3B	20d	13-Sep-12	10-Oct-12	Foundations - Switchyard - RAT 3B																																			
PGLCO	Foundations - Switchyard - UAT 3	20d	11-Oct-12	07-Nov-12	Foundations - Switchyard - UAT 3																																			
PGLCO	Foundations - Ash Silo	35d	01-Mar-13	18-Apr-13	Foundations - Ash Silo																																			
PGLCO	Foundations - UREA Storage	40d	19-Apr-13	14-Jun-13	Foundations - UREA Storage																																			
Concrete, Foundations - Elevated																																								
PGLI	Pedestals - ID Fan Area	40d	08-Oct-12	30-Nov-12	Pedestals - ID Fan Area																																			
Foundations, Concrete - Piers																																								
PGLCO	Drilled Piers - SCR Area/North Flue Area	30d	15-May-12	25-Jun-12	Drilled Piers - SCR Area/North Flue Area																																			

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