

Activity ID	Activity Description	Orig Dur	Rem Dur	% Comp	Early Start	Early Finish	Total Float	RESP	Budgeted Cost	Cost to Date	2007												2008				
											F	M	A	M	J	J	A	S	O	N	D	D	J	F	M	A	M
MOB1040	BONDS & PERMITS (Electrical & Bldg)	10	0	100	22FEB07A	01NOV07A		OWNR	30,000.00	30,000.00																	
MOB1050	ALLOWANCE - Permits	1	1	0	30NOV07	30NOV07	66	OWNR	25,000.00	0.00																	
MOB1060	ALLOWANCE - Spare Parts	1	1	0	30NOV07	30NOV07	66	OWNR	25,000.00	0.00																	
MOB1070	ALLOWANCE - City Inspection	1	1	0	30NOV07	30NOV07	66	OWNR	25,000.00	0.00																	
MOB1080	ALLOWANCE - Site Conditions	1	1	0	30NOV07	30NOV07	66	OWNR	100,000.00	0.00																	
Subtotal		200	1	86	22FEB07A	30NOV07	66		330,000.00	73,750.00																	
DEMOLITION																											
DEMO1050	Coordination/Layout	10	0	100	15MAR07A	25APR07A		MC	10,000.00	10,000.00																	
DEMO1000	Demo - Piping & Supports - Level B2	20	0	100	14MAY07A	31MAY07A		MC	25,000.00	25,000.00																	
DEMO1020	Demo - Piping & Supports - Level Above Ground	10	0	100	22MAY07A	20JUN07A		MC	2,500.00	2,500.00																	
DEMO1010	Demo - Piping & Supports - Level B1	5	0	100	29MAY07A	29MAY07A		MC	5,492.00	5,492.00																	
Subtotal		70	0	100	15MAR07A	20JUN07A		MC	42,992.00	42,992.00																	
EQUIPMENT PADS & CMU																											
CONC1030	Demo - Concrete Pads & Pedestals - Level B2	5	0	100	22MAY07A	24MAY07A		CONC	1,200.00	1,200.00																	
CONC1050	Install Pump Pads	10	0	100	29OCT07A	30OCT07A		CONC	2,900.00	2,900.00																	
CONC1070	Install Elec Equipment Pads @ Level B1	5	0	100	23NOV07A	23NOV07A		CONC	2,900.00	2,900.00																	
CONC1060	CMU Wall @ Level B1	9	5	44	27NOV07A	07DEC07	13	CONC	18,458.00	0.00																	
CONC1040	Demo - CMU - Level B1/Cut Hole in Wall	1	1	0	30NOV07	30NOV07	13	CONC	3,500.00	0.00																	
Subtotal		142	6	80	22MAY07A	07DEC07	13	CONC	28,958.00	7,000.00																	
2E DIGESTER																											
2E-0920	Install Piping & Fittings	5	1	90	18JUN07A	30NOV07	17	MC	140,000.00	126,000.00																	
2E-0915	Install Pipe Supports	10	0	100	29JUN07A	26OCT07A		MC	41,500.00	41,500.00																	
2E-0925	Install Steam & Plant Air Pipe & Fittings	10	1	95	02JUL07A	30NOV07	17	MC	40,000.00	38,000.00																	
2E-0930	Install Pipe Valves	5	0	100	09JUL07A	10OCT07A		MC	98,000.00	98,000.00																	
2E-0900	Install Pumps	5	0	100	01NOV07A	07NOV07A		MC	36,500.00	36,500.00																	
2E-0940	Pressure Test	1	1	0	05DEC07	05DEC07	17	MC	5,000.00	0.00																	
ELEC1100	Heat Trace - 2E Digester	4	4	0	02JAN08	07JAN08	0	ELEC	4,665.00	0.00																	
ELEC1105	Test Heat Trace - 2E Digester	1	1	0	08JAN08	08JAN08	0	ELEC	1,000.00	0.00																	
INSU1000	Insulate - 2E Digester	3	3	0	09JAN08	11JAN08	0	INSU	31,150.00	0.00																	
2E-0970	Pipe ID & Tag	2	2	0	14JAN08	15JAN08	19	MC	2,451.00	0.00																	
Subtotal		148	31	72	18JUN07A	15JAN08	19		400,266.00	340,000.00																	
3E DIGESTER																											
3E-1000	Install Piping & Fittings	5	1	90	18JUN07A	04DEC07	17	MC	140,000.00	126,000.00																	
3E-0990	Install Pipe Supports	10	1	95	29JUN07A	03DEC07	17	MC	41,500.00	39,425.00																	
3E-1005	Install Steam & Plant Air Pipe & Fittings	10	1	95	02JUL07A	04DEC07	17	MC	40,000.00	38,000.00																	
3E-1010	Install Pipe Valves	5	0	100	09JUL07A	02OCT07A		MC	98,000.00	98,000.00																	
3E-0980	Install Pumps	5	0	100	01NOV07A	07NOV07A		MC	36,500.00	36,500.00																	

Start Date22FEB07

Finish Date05MAR08

Data Date30NOV07

Run Date20DEC07 08:19

Early Bar

Progress Bar

Critical Activity

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711

MURRAY COMPANY

CLASS "A" BATCH PROCESS EXPANSION

Nov07 Update

DETAILED SCHEDULE (BY AREA)

Sheet 3 of 5

S.L. Boschen - Scheduler

Date	Revision	Checked	Approved

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Activity ID	Activity Description	Orig Dur	Rem Dur	% Comp	Early Start	Early Finish	Total Float	RESP	Budgeted Cost	Cost to Date	2007												2008					
											F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		
3E-1020	Pressure Test	1	1	0	05DEC07	05DEC07	17	MC	5,000.00	0.00	27NOV07 - SPILL IMPACT																	
ELEC1110	Heat Trace - 3E Digester	4	4	0	26DEC07	31DEC07	14	ELEC	4,665.00	0.00																		
ELEC1115	Test Heat Trace - 3E Digester	1	1	0	02JAN08	02JAN08	14	ELEC	1,000.00	0.00																		
INSU1010	Insulate - 3E Digester	3	3	0	09JAN08	11JAN08	10	INSU	31,150.00	0.00																		
3E-1050	Pipe ID & Tag	2	2	0	14JAN08	15JAN08	19	MC	2,451.00	0.00																		
Subtotal		148	30	70	18JUN07A	15JAN08	19		400,266.00	337,925.00																		
HVAC																												
HVAC1000	Extend Existing Ductwork	5	5	0	13DEC07	19DEC07	36	HVAC	1,900.00	0.00																		
Subtotal		5	5	0	13DEC07	19DEC07	36	HVAC	1,900.00	0.00																		
INSTRUMENTATION INSTALLATION																												
INST0100	Install Instrumentation	5	1	80	30JUL07A	10DEC07	24	INST	55,000.00	44,000.00																		
INST0090	Install Control Panel Modifications	5	0	100	05SEP07A	12SEP07A		INST	14,000.00	14,000.00																		
INST0110	Calibration & Testing	5	5	0	11DEC07	17DEC07	24	INST	3,250.00	0.00																		
INST0120	Approval of Calibration & Testing	1	1	0	18DEC07	18DEC07	24	OWNR	0.00	0.00																		
Subtotal		101	7	56	30JUL07A	18DEC07	24		72,250.00	58,000.00																		
ELECTRICAL INSTALLATION																												
ELE1020	Install Large Conduit	20	4	80	10SEP07A	05DEC07	0	ELEC	14,250.00	11,400.00	27NOV07 - SPILL IMPACT																	
ELE1030	Install Small Conduit	20	4	80	01OCT07A	05DEC07	0	ELEC	18,000.00	14,400.00	27NOV07 - SPILL IMPACT																	
ELE1000	Install Transformer	6	1	83	21NOV07A	20DEC07	0	ELEC	50,000.00	41,650.00																		
ELE1025	Pull Large Wire	10	10	0	06DEC07	19DEC07	0	ELEC	42,000.00	0.00																		
ELE1035	Pull Small Wire	10	10	0	06DEC07	19DEC07	0	ELEC	21,290.00	0.00																		
ELE1045	Install Heat Trace Panel	3	3	0	20DEC07	24DEC07	4	ELEC	2,000.00	0.00																		
ELE1010	Install UPS System	6	6	0	21DEC07	31DEC07	0	ELEC	45,500.00	0.00																		
Subtotal		79	21	49	10SEP07A	31DEC07	0	ELEC	193,040.00	67,450.00																		
NEW CONNECTIONS																												
INST1085	Submit SPA - Digester 2E	1	0	100	03OCT07A	03OCT07A		OWNR	0.00	0.00																		
INST1090	Digester 2E Tie-In	10	10	0	14JAN08	25JAN08	0	MC	5,000.00	0.00																		
INST1095	Submit SPA - Digester 3E	1	1	0	28JAN08	28JAN08	0	OWNR	0.00	0.00																		
INST1100	Digester 3E Tie-In	10	10	0	29JAN08	11FEB08	0	MC	5,000.00	0.00																		
Subtotal		91	21	5	03OCT07A	11FEB08	0		10,000.00	0.00																		
FINAL TESTING																												
TEST1000	Start Up and Test System	15	15	0	12FEB08	03MAR08	0	MC	8,000.00	0.00																		
PAINT1080	Coating	5	5	0	26FEB08	03MAR08	0	PTG	29,000.00	0.00																		
Subtotal		15	15	0	12FEB08	03MAR08	0		37,000.00	0.00																		
PROJECT CLOSEOUT																												
FIN1000	Prepare/Submit O&M	22	20	10	12NOV07A	24JAN08	24	MC	8,211.00	821.10																		

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Start Date22FEB07

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Early Bar

Progress Bar

Critical Activity

0711

Sheet 4 of 5

MURRAY COMPANY

CLASS "A" BATCH PROCESS EXPANSION

Nov07 Update

DETAILED SCHEDULE (BY AREA)

S.L. Boschen - Scheduler

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