

Mummett Station Cost Estimates, Capacity Factors, ~~and~~ FERC data (12/2/09)

597

PSNH Cost estimate - hybrid, both units

		consolidated line items
1 Design engineering	1,300,000	1,300,000
2 Mobilization/setup	156,700	
3 General site modifications	237,000	
4 Cooling tower basin installation	2,171,600	2,171,600
5 Cooling tower delivery & erection	16,332,500	16,332,500
6 Cooling tower automated control system & RTD array	100,000	
7 New discharge and supply piping	5,749,100	5,749,100
8 Electrical substation 1	1,092,700	2,324,700
9 Electrical on-tower 2	1,043,300	
10 Intake pumping modifications 1	972,600	1,621,000
11 booster pumping station 1	4,183,800	4,478,900
12 admin, support craft, & misc 1	6,172,600	
13 booster pumping station 2	295,100	
14 Intake pumping modifications 2	648,400	
15 electrical tie-ins 3	188,700	
16 condenser tube cleaning system, unit 1	300,000	
17 condenser tube cleaning system, unit 2	400,000	
18 testing and commissioning	132,200	
19 admin, support craft, & misc 2	404,500	
20 demobilization	163,900	
21 subtotal	42,044,700	
22 payment and performance bond	252,300	
23 contingency (25% of 21+22)	10,574,300	10,574,300
24 overhead & AFUDC (12% of 21+22+23)	6,344,600	6,344,600
25 total	59,215,900	50,896,700
other		8,319,200

\$/MW (470 MW for Units 1-2 combined)

	126	
condenser efficiency penalty output loss - unit 1	100,900	1,879,500
condenser efficiency penalty output loss - unit 2	1,778,600	
fan/pump parasitic losses - unit 1	983,900	4,225,800
fan/pump parasitic losses - unit 2	3,241,900	
water treatment costs	175,000	
annual operations - units 1-2 combined	125,000	400,000
annual maintenance, combined - years 1-5	100,000	500,000
years 6-15	200,000	500,000
years 16-30	500,000	800,000
total years 1-5	6,505,300	
total years 6-15	6,605,300	
total years 16-30	6,905,300	

NH	Merrimack	2364	1	2004	ARP	7,808	12	9,153.9	0.24	1,084.2
NH	Merrimack	2364	1	2005	ARP	8,297	12	10,819.2	0.35	1,748.1
NH	Merrimack	2364	1	2006	ARP	7,367	12	9,997.7	0.37	1,658.0
NH	Merrimack	2364	1	2007	ARP	8,549	12	11,419.8	0.18	970.5
NH	Merrimack	2364	1	2008	ARP	7,180	12	9,924.3	0.26	1,146.9
NH	Merrimack	2364	2	2004	ARP	7,543	12	20,582.0	0.28	3,068.5
NH	Merrimack	2364	2	2005	ARP	7,382	12	22,947.8	0.29	3,281.7
NH	Merrimack	2364	2	2006	ARP	7,650	12	22,728.3	0.26	3,303.6
NH	Merrimack	2364	2	2007	ARP	7,508	12	25,064.1	0.19	2,248.1
NH	Merrimack	2364	2	2008	ARP	6,595	12	21,381.1	0.20	2,010.3
Total								164,018.2		20,519.8

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7808	0.895
8297	
7367	
8549	
7180	
7543	0.837397
7382	
7650	
7508	
6595	
	0.852104

	MWH sold	Revenue	Avg No. of KWh sales	Rev per kWh				
Res	3104609	472486303	418107	7425	0.1522	94.17375	618.75	0.9904
C&I	4796512	601246528	73875	65007	0.1254			
streetlight	24748	6514595	931	26582	0.2632			
total	7970949	1084405953	492823	16174	0.136			

0.001505
0.001556
0.001405
0.001455