

PSA Listing
PS12M Magnolia Power Project
BWP Board Meeting
FY17-18 Budget

PSA ITEMS	PSA Vendor Name	PSA Amount	PSA Purpose	PSA Fund	PSA Cost	PSA Account-Subaccount	PSA Project	PSA Regulatory
Item # 1	CalTrol	45,000	Distributed Controls System (DCS) support and DeltaV (control software) Guardian Support Services for Emerson Products	483	PS12M	62085_0000	P000000	54900
Item # 2	Cooper Compliance Corp	68,250	NERC reliability standards (best practices)	483	PS12M	62085_0000	P000000	54800
Item # 3	Power Engineers	35,000	Provide protection relay engineering services for the test shop to support MPP relay maintenance	483	PS12M	62085_0000	P000000	55300
Item # 4	RKI Engineering	27,000	Zero Liquid Discharge System (ZLD) and Programmable Logic Controller (PLC) programming and troubleshooting support	483	PS12M	62085_0000	P000000	54850
Item # 5	TBD	8,500	Carbon Monoxide (CO) and Selective Catalytic Reduction catalyst annual testing to accurately predict remaining catalyst life and the associated maintenance and replacement schedule	483	PS12M	62085_0000	P000000	54800
Item # 6	TBD	37,375	Air emissions testing services to meet environmental requirements for annual testing of MPP, as required by the South Coast Air Management District	483	PS12M	62085_0000	P000000	54900
Item # 7	TBD	50,000	Engineering Computer Aided Design (CAD) support to properly capture documentation of power plant process changes (red-lined drawings)	483	PS12M	62085_0000	P000000	54900
Item # 8	TBD	60,000	Consultant(s) to provide system controls and load dispatching	483	PS12M	62085_0000	P000000	55600
Item # 9	TBD	70,000	Temporary staffing on essential power plant controls engineering function	483	PS12M	62085_0000	P000000	54800
Item # 10	TBD	100,000	Engineering support for plant maintenance issues, integration of audit findings, and reliability issues	483	PS12M	62085_0000	P000000	54800
Item # 11	Trimark Associates	5,000	Generation reporting requirements for Western Renewable Energy Generation Information System (WREGIS)	483	PS12M	62085_0000	P000000	54800
Item # 12	OATI	32,034	Services and support for wholesale energy transaction management	483	PS12M	62316_0000	P000000	55600
Item # 13	OSIsoft	6,100	Plant Data Historian Software (PI) license	483	PS12M	62316_0000	P000000	55600
Item # 14	TBD	25,000	Boiler chemicals to maintain water chemistry in MPP within acceptable operating limits	483	PS12M	62382_0000	P000000	54800
Item # 15	TBD	165,000	Cooling tower chemicals to maintain water chemistry in MPP within acceptable operating limits	483	PS12M	62381_0000	P000000	54800
Item # 16	TBD	490,000	Water treatment chemicals to maintain process chemistry in the Zero Liquid Discharge System (ZLD)	483	PS12M	62380_0000	P000000	54850
Item # 17	RKI Engineering	10,500	Training on the MPP Continuous Emissions Monitoring System (CEMS) computer interface	483	PS12M	62775_0000	P000000	54900
Item # 18	TBD	24,480	Maintenance training on specific job tasks, such as rotating equipment repairs, cribbing, lifting, and slinging	483	PS12M	62775_0000	P000000	55300
Item # 19	TBD	56,720	Operations training on Martech and GE for operators to maintain proficiency	483	PS12M	62775_0000	P000000	54800
Item # 20	CEMTEK	15,000	Daily verification of Continuous Emissions Monitoring System (CEMS) data	483	PS12M	63240_0000	P000000	54800
Item # 21	NRG	73,000	Provide general environmental compliance support for MPP, such as storm water, air quality, and waste management activities	483	PS12M	63240_0000	P000000	54800
Item # 22	RKI Engineering	25,000	Human Machine Interface (HMI), Programmable Logic Controller (PLC), and Continuous Emissions Monitoring System (CEMS) support	483	PS12M	63240_0000	P000000	54800
Item # 23	TBD	10,500	Greenhouse gas emissions report verification services	483	PS12M	63240_0000	P000000	54800
Item # 24	TBD	50,000	Environmental regulatory compliance and permitting support	483	PS12M	63240_0000	P000000	54800
Item # 25	TBD	30,000	Legal support for environmental compliance	483	PS12M	63240_0000	P000000	54800
Item # 26	PureTec	283,030	Demineralized water production	483	PS12M	63295_0000	P000000	54800
Item # 27	TBD	50,000	Professional consultations to address reliability requirements and process improvements within the Zero Liquid Discharge System (ZLD)	483	PS12M	70070_0000	P000000	99929
Item # 28	TBD	75,000	Plant engineering support for capital improvement projects	483	PS12M	70070_0000	P000000	99929
Item # 29	TBD	100,000	Review the current MPP control parameters and implement refined control loops to better control the MPP units output	483	PS12M	70070_0000	P000000	99929
Item # 30	Norman Pedersen	45,000	Representation for MPP's interests regarding potential So. Cal Gas Curtailments	483	PS12M	62085_0000	P000000	54800
Totals		2,072,489						