

ALTERNATE 3 - INSTALL 50 MW SUBSTATION, ELIMINATE STEAM USE, ADD ENGINE GENERATORS AND CONVERT TO 60 HZ POWER

DESCRIPTION	QTY	UM	CONSTRUCTION		Construction Contingency	Design Contingency	Escalation Year
			UNIT \$	TOTAL			
<b>Phase 1</b>							
Demolition of T1, T3 and Auxiliaries	1	LS	\$ 700,000	\$ 700,000	20%	30%	
Demolition of T4, T5 and Auxiliaries	1	LS	\$ 700,000	\$ 700,000	20%	30%	
Complete Boiler House Equipment Demolition	1	LS	\$ 1,700,000	\$ 1,700,000	20%	30%	
New 50 MVA Substation	1	LS	\$ 14,000,000	\$ 14,000,000	20%	20%	
West Site Redevelopment and Retention Pond Removal	1	LS	\$ 5,000,000	\$ 5,000,000	20%	30%	
Wartsila 18V50DF - Installed	3	LS	\$ 19,800,000	\$ 59,400,000	20%	20%	
Plant Building to House Engine Generators and Control Room	1	LS	\$ 7,200,000	\$ 7,200,000	20%	30%	
Fuel Gas and Fuel Oil Lines to West Power Complex	1	LS	\$ 731,700	\$ 731,700	20%	30%	2021
New 60 Hz Ring Bus at WPC or PFC Building	1	LS	\$ 2,500,000	\$ 2,500,000	20%	30%	
New Aux Ring Bus at DPS 3	-	LS	\$ 1,200,000	\$ -	20%	30%	
New 25 MW Static Frequency Changer	3	LS	\$ 7,250,000	\$ 21,750,000	20%	30%	
Power Plant Control System	1	LS	\$ 4,000,000	\$ 4,000,000	20%	30%	
New Carrolton Feeders From West Power Complex to Loads	1	LS	\$ 1,860,000	\$ 1,860,000	20%	30%	
Development and installation of integrated communications & control system, New Equip	1	LS	\$ 10,000,000	\$ 10,000,000	20%	30%	
	-		\$ -	\$ -			
<b>SubTotal (2019 Dollars)</b>				<b>\$ 129,541,700</b>	<b>\$ 25,908,000</b>	<b>\$ 31,523,000</b>	
<b>Escalated Total</b>				<b>\$ 136,099,749</b>	<b>\$ 27,219,593</b>	<b>\$ 33,118,852</b>	