	Option 1	Option 2	Option 3	Option 4	Option 5
Compressor	Replace existing compressor with a like size skid mounted re-manufactured compressor	Replace existing compressor with a like size skid mounted re-manufactured compressor	Replace existing compressor with a like size skid mounted re-manufactured compressor	Replace existing compressor with a re-manufactured compressor with through put equal to Compr 2 and 3.	Replace existing compressor with a re-manufactured compressor with through put equal to Compr 2 and 3.
4KV Motor	Refurbish existing motor	Refurbish existing motor	Refurbish existing motor	Replace with new 1250 Hp Synchronous motor	Replace with new 1250 Hp induction motor
4 KV Switchgear	Not Required	Replace existing switchgear with new motor starter / synchronous exciter	Replace existing switchgear with new motor starter / synchronous exciter	Replace existing switchgear with new motor starter / synchronous exciter	Replace with new motor starter and soft start
Compressor 1 Motor Control Center	Not Required	Not Required	Replace existing MCC with new	Not Required	Not required
4 KV power feed to compressor	Not required	Not required	Not required	Pull new 4 KV cable to Compr 1 to handle additional Hp	Pull new 4 KV cable to Compr 1 to handle additional Hp
Estimated Cost	$582,106	$627,104	$709,951	$1,849,081	$944,661
Advantages	Lowest cost alternative.	Improved reliability over option 1 by eliminating older switchgear.	Most reliable option for existing throughput.	Continues the use of synchronous motors similar to what is in use at most gas storage facilities.	Lower cost by using induction motor versus sync motor. Controls simplified by using soft start versus 4 KV exciter.
Disadvantages	Least reliable - existing motor, switchgear and MCC will still be prone to failure due to age. With no uprate in throughput a loss of Compr 2 or 3 will still result in loss of capacity of site.	Reliability is still questionable due to older equipment located in the MCC. With no uprate in throughput a loss of Compr 2 or 3 will still result in loss of capacity of site.	With no uprate in throughput a loss of Compr 2 or 3 will still result in loss of capacity of site.	Cost - estimated cost for new sync motor is in excess of $800,000 with a minimum of 50 week lead time.	Due to older MCC the reliabilty of the compressor is reduced to less then optimum.

Option 6	Option 7
Replace existing compressor with a re-manufactured compressor with through put equal to Compr 2 and 3.	Replace existing compressor with a re-manufactured compressor with through put equal to Compr 2 and 3 using VFD Control.
Replace with new 1250 Hp induction motor	Replace with new 1250 Hp induction motor
Replace with new motor starter and soft start	Replace with new VFD for flow control down to 650 RPM.
Replace existing MCC with new	Replace existing MCC with new
Pull new 4 KV cable to Compr 1 to handle additional Hp	Pull new 4 KV cable to Compr 1 to handle additional Hp
$998,156	$1,179,126
Maximum reliablity for uprate options. Site can withstand a compressor loss and still maintain throughput.	Maximum reliablity for uprate options. Site can withstand a compressor loss and still maintain throughput. Provide excellent flow control while reducing wear on compressor with VFD.
High cost for uprate options and flow control.	Highest cost for uprate options and flow control.

		Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7
	Supplier	Compressor only (no uprate)	Compressor (no Uprate) and Switchgear	Compressor (no uprate), Switchgear and MCC	Uprated Compressor and 4KV Sync Motor	Uprated Compressor, Induction Motor and Switchgear	Uprated Compressor, Induction Motor, Switchgear and MCC	Uprated Compressor, Induction Motor, Switchgear, VFD and MCC
Removal of old Compr/Coolers	Midwest Crane	$14,400	$14,400	$14,400	$14,400	$14,400	$14,400	$14,400
Compressor	EnDyn	$380,000	$380,000	$380,000	$380,000	$380,000	$380,000	$380,000
Compressor Freight	EnDyn	$9,000	$9,000	$9,000	$9,000	$9,000	$9,000	$9,000
Building/Concrete/Crow at Work	H&H	$65,000	$65,000	$65,000	$65,000	$65,000	$65,000	$65,000
Compressor Piping Work	Site Personnel	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000	$10,000
Compressor Lubricator	TF Hudgins	$31,331	$31,331	$31,331	$31,331	$31,331	$31,331	$31,331
Compressor Spare Parts	EnDyn	$28,000	$28,000	$28,000	$28,000	$28,000	$28,000	$28,000
Installation of new Compressor	Midwest Crane	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000	$30,000
Compressor Startup Support	EnDyn	$8,000	$8,000	$8,000	$8,000	$8,000	$8,000	$8,000
Main Gas Cooler	Cooling Products	Not Required	Not Required	Not Required	$50,000	$50,000	$50,000	$50,000
JW Cooler	Cooling Products	Not Required	Not Required	Not Required	$25,000	$25,000	$25,000	$25,000
4KV Motor Refurbish	Bodine	$6,375	$6,375	$6,375	Not Required	Not Required	Not Required	Not Required
4 KV SwitchGear	Bodine	Not Required	$44,998	$54,500	$54,500	Not Required	Not Required	Not Required
4KV Cable Replacement	Hart Electric	Not Required	Not Required	Not Required	$94,000	$94,000	$94,000	$94,000
4 KV Motor & Voltage Drive	Bodine	Not Required	Not Required	Not Required	$1,000,000	$132,580	$132,580	$313,550

		Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7
Controls Engineering Support	UEI	Not Required	Not Required	Not Required	$30,000	$30,000	$30,000	$30,000
Voltage Drive Spare Parts	Bodine	Not Required	Not Required	Not Required	Not Required	$17,500	$17,500	$17,500
MCC	Bodine	Not Required	Not Required	$19,850	$19,850	$19,850	$19,850	$19,850
480 vac Transformers	Bodine	Not Required	Not Required	$3,495	Not Required	Not Required	$3,495	$3,495
MCC Replacement (Labor)	Hart Electric	Not Required	Not Required	$50,000	Not Required	Not Required	$50,000	$50,000
	Total Estimated Cost	**$582,106**	**$627,104**	**$709,951**	**$1,849,081**	**$944,661**	**$998,156**	**$1,179,126**