

Maintenance Job Planning/Estimating Worksheet											
Planner:		Michael Roberts		Work Order#:		472464		Date:		05/16/21	
Job Contact:		Jason Battalia		Job Location:		Mixer #7		Equipment #		26	
Job Description:		Install spare gear box (GB)									
Job Scope											
Seq #	Operation Description			Craft	# Crew	Estimated Hours		Actual Hours			
10	LOTO breaker at cubicle #4, MCC#6			Mechanic	3	.25					
				Electrician	1	.25					
20	Remove guarding (2)			Mechanic	2	.5					
30	Remove oil piping			Mechanic	2	.5					
40	Remove motor per SOP 207B			Mechanic	2	1					
50	Break chain			Mechanic	1	.25					
60	Unbolt/remove GB			Mechanic	2	1					
70	Prepare for new GB			Mechanic	1	.5					
				Electrician	1	.5					
80	Set/bolt/align GB			Mechanic	2	1					
	Check bolt torque setting per manufacturer recommendation			Electrician	1	1					
				Crane Op	1	.5					
90	Reinstall motor SOP 207B			Mechanic	2	.5					
100	Tighten v-belts SOP 30			Mechanic	1	.5					
120	Install chain			Mechanic	1	.25					
130	Check alignment of output shaft chain SOP 300			Mechanic	1	.5					
140	Install oil pump and piping			Mechanic	1	.5					
150	Install guards			Mechanic	2	.25					
160	Fill GB with oil			Mechanic	1	.5					
				Electrician	1	.5					
170	Lube chain			Mechanic	1	.25					
180	Remove LOTO			Mechanic	1	.25					
130	Energize and test			Electrician	1	.25					
200	Vibration reading			PdM tech	1	.25					
				Total Hours:			10.0				
Materials Required											
Seq #	Material Data/Catalog # or Description			Quantity/ Unit of Measure (UOM)		Price	Required Date		Sloc (storage location)		
10	LOTO Kit			1		N/A	<div></div>		A01		
70	Gearbox			1		50,000					
100	Replacement belts (same lot)			4		300			Bin 73		
	G1 2050, 5" Bore STD key			1		250					
	3/4" key stock			1		50					
150	15 gal oil (GSO mobile)			1/320		100			T103		
	shim stock			1/feet					T103		
120	Chain lube			1		5			T103		
				Total \$:		\$51,630					
Safety Requirements											
Permit	none	Confined Space		Hot Work		Respirator					
SCBA		Asbestos Removal		Other	Standard PPE						
Additional Comments:		LO/TO, forklift operation, SDS exposures, equipment is located beneath a bridge crane, need to prepare a lift plan									
Tools Needed											
10 ton lifting straps, eye bolts (4) 3/4, 1 1/2 socket wrench, 3/4" drive ratchet, 1 1/4 slug wrench, hammer, laser alignment, assorted hand tools for piping and electric motor, 1-1/4 combo wrench											
Equipment											
10-ton crane, 1 6-ton crane, induction heater, forklift											
Operation Notes											
Job plan durations are expected to extend beyond the operations window.											
Leave area clean as found, return equipment and tools, complete work order documentation.											