

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 Electrician	3 1	.25 .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 Electrician	1 1	.5 .5		
80	Set/bolt/align GB Check bolt torque setting per manufacturer recommendation	Mechanic Electrician Crane Op	2 1 1	1 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 Electrician	1 1	.5 .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		A01	
70	Gearbox	1	50,000			
100	Replacement belts (same lot) G1 2050, 5" Bore STD key 3/4" key stock	4 1 1	300 250 50		Bin 73	
150	15 gal oil (GSO mobile) shim stock	1/320 1/feet	100		T103 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.						