

Job Risk Analysis

Name(s) of Risk Team Members: P. Cirnigliaro, W. Shaffer, C. Skrezec, S. Yakaboski				Point Value → Parameter ↓	1	2	3	4	5							
Job Title: Electronic work-routine <600 V Job Number or Job Identifier: JRA 4-05				Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift							
Job Description: Install bypass actuator valve on RFMG cooling tower.				Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability							
Training and Procedures List (optional):				Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple							
Approved by: <i>E. Lessard</i> Date: 3-08-05 Rev. #: 0																
Stressors (if applicable, please list all):				Reason for Revision (if applicable):			Comments:									
				Before Additional Controls					After Additional Controls							
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Drive to and from RFMG cooling tower.	Highway accidents	Procedures, training, permits, enforcement of traffic rules.	N	2	2	3	3	36								
Drive to and from RFMG cooling tower.	Radiation	Procedures, training, permits.	N	2	2	1	2	8								
Perform LOTO on 110 VAC circuit Breakers (2 circuits)	Exposure to electrical shock	Procedures, training, use of PPE as per NFPA 70E, use of circuit breaker lock out devices.	N	1	2	5	3	30	Use improved circuit breaker lock out device to prevent inadvertent remove of locks.	N	1	2	5	2	20	66%
Access to Actuator valve using a ladder	Falls to lower level	Procedures, training, permits.	N	1	2	1	3	6								
Remove cover to actuator valve	Use of hand tools, allen keys.	Procedures, training, use of ergonomic hand tools T handle allen keys.	N	1	2	1	2	4								
Verify de-energize status of wires to actuator valve.	Exposure to electrical shock	Procedures, LOTO training, PPE as per NFPA 70e, use of class III multimeter.	N	1	2	5	3	30	Use insulated tools (screw driver)	N	1	2	5	2	20	66%

Install cable conduit to actuator valve using silicone sealer to waterproof.	Chemical exposure	Procedures, gloves, safety glasses, training	N	1	2	1	2	4								
Install electrical connections (Use of hand tools, screwdriver)	Being struck by an object such as a sharp surface on a tool	Procedures, gloves, safety glasses, training	N	1	2	1	2	4								
Verify operation of actuator valve by inspection of operation inside cooling tower.	Bodily reaction – injuries resulting from bending, climbing, loss of balance and slipping. Falls to lower level	Procedures, training	N	1	2	3	4	24	Install mesh platform between access ladder on piping side of cooling tower and access door.	N	1	2	3	2	12	50%
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater											
	Negligible	Acceptable	Moderate	Substantial	Intolerable											