LEPHONE NUMBER:	Rotork Controls, Incorporated 19 Jet View Drive Rochester, New York 14624 Mr. Doug Matla, QA Manager (716) 328-1550	
LEPHONE NUMBER:	Mr. Doug Matla, QA Manager (716) 328-1550	
JCLEAR INDUSTRY ACTIVITY	and the second	
	: Electric and hydraulic actuator:	s for valves.
	lun & TBoker	2/27/20
	ard T. Baker, Reactive Inspection Se	ection No. 1 Date
THER INSPECTOR(S):	11. 7 1	. in laker
	Brach, Chief, Vendor Inspection Bra	anch Bate
SPECTION BASES AND SCOP	PE:	
BASES: Appendix B	to 10 CFR 50, 10 CFR 21	
	program elements applicable to design dication of commercial grade items.	

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۹.	VIOLATION				
None.					
3.	NONCONFORMANCES :	INCONFORMANCES :			
 Contrary to Criterion III of Appendix B to 10 CFR 50 and Paragraphs 4.2 and 4.2.1 of Section 3 of Rotork's QA Manu Anchor Darling Valve Company Purchase Order (PO) G-1942 and Revision 1 to the PO, Rotork personne¹ failed to route Nonstandard Product Request Forms 916 and 1087 to the QA I for review and approval. (89-01-01) 			k's QA Manual, on 0) G-1942 and to route		
	Parts, LOP 050, Ro purchased commerci verifying that the	ion III of Appendix E to 10 (tork used 3/8" diameter, 1" s al grade to hold down thrust capscrews met the 70 tons/so for the item (Item 69). (89-	sockethead capscrews rings without quare inch requirement		
:	Paragraph 5 of ANS Section 7 of Rotor	ion IV of Appendix B to 10 Cl I N45.2., Paragraph 3.4 of Ap k's QA manual does not requir requirements down to their su -01-03)	ppendix A to re that suppliers		
	Paragraph 3.6 of S ASCO for solenoid	ion IV of Appendix B to 10 Cl ection 4.0 of Rotork's QA Mar valves qualified to IEEE-323 manager and did not include -01-04)	nual, two POs to and 344 were not		
1	no documented inst from customers wer	ion V of Appendix B to 10 CFF ruction or procedures on how e to be handled, resulting in ing ordered without appropria	items returned n replacement ASCO		
. !	UNRESOLVED ITEMS:				
	the inspector reviewed as a result of a previo described the actions t exist, i.e., report it	Rotork's Part 21 procedure wa the changes which were made to us NRC inspection and guidance o be taken when a defect was to the NRC. However the revi taken when a deviation exist	to the procedure ce. The procedure determined to ised procedure did		

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	cre the he rew ina inc Iss	ate a substantial s ir customer. In di informed the inspect ritten during the ritten. It is reco dequacies during the omplete. As a resu	aluation to determine if the de safety hazard, i.e., report the iscussing these concerns with F ctor that the current Part 21 p last NRC inspection and was for ognized that NRC comments on the previous inspection were ine alt this issue is categorized a corrective action will be revie	e deviation to Rotork's QA Manager, procedure was und acceptable as he procedure adequate or as an Unresolved
D.	STATUS OF PREVIOUS INSPECTION FINDINGS:			
	There were no findings during the previous inspection.			
Ε.	E. INSPECTION FINDINGS AND OTHER COMMENTS:			
	1.	Entrance and Exit	Meetings	
		the scope of the September 12, 198	formed Rotork's management repr inspection during the entrance 39, and summarized the inspection ing the exit meeting on Septemb	e meeting on ion findings and
	2.	QA Program		
		ANSI N45.2, which the nuclear quali quarter-turn elec P-series. Suppli	le QA program written to meet is applied to their three act fied electric motor driven A-s tric motor driven AQ-series, a ers to Rotork may be qualified QA manual, or historical perf	tuator lines, series, the and the pnuematic by audit, review
		. Design Contr	<u>'01</u>	
		product modi system. The the Engineer to present. review. The the actuator qualificatio	Rotork's QA Manual, anyone ca fication through the product m inspector reviewed the modifi- ing Design Mods Report Log for Two modifications were select modifications had been evalua 's qualification and found not on. The appropriate parties had modifications.	nodification ications listed in r the period 1984 ted for detailed ated for affect on t to affect

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During discussions with Rotork personnel concerning the sources of parts for the valve actuators, it was determined that all parts for the nuclear qualified electric operators are ordered from Rotork Limited, Bath, England, with the exception of fasteners, which are procured locally from a supply house. When asked which fasteners are considered critical to the functioning of the operator, Rotork's Engineering Manager stated only the 3/8" diameter, 1" long sockethead capscrews that hold down the thrust ring are considered critical. When asked for a copy of a PO for the fasteners, Rotork personnel provided a PO to Rochester Screw & Bolt Company that included this fastener which was ordered commercial grade. When the inspector asked to see the design requirements for the capscrew, Rotork personnel provided List of Parts, LOP 050. The capscrew was listed as Item 69 and described as a 3/8" x 1" UNC sockethead capscrew, 70 tons/square inch tensile strength. When questioned by the inspector, Rotork personnel stated that no action was taken to assure that the capscrews purchased as commercial grade met the tensile strength requirement. This was identified as Nonconformance 89-01-02.

b. Procurement Document Control

The inspector's review of the QA Manual revealed that Rotork's Supplier Quality Assurance Policy, Appendix A to Section 7 of the QA Manual, did not require Rotork's suppliers to pass applicable QA requirements down to sublier suppliers. This was identified as Nonconformance 89-01-03.

c. Control of Purchased Material Equipment and Services

Rotork's QA Manual allows suppliers to be qualified based on product quality history, audits, or review and approval of the suppliers' QA manual. For all purchased material, Rotork maintains a computerized data file, by supplier and part number, on the quality of items supplied. For all items produced domestically under a Rotork part number, Rotork performs a receipt inspect of all dimensions and drawing notes on a sample of parts received. The sample size is based on a Mil-Std-105D single sampling plan. Every three months the QA department calculates a Vendor Rating based on the number of parts supplied and the number accepted. The rating is mailed to the vendor and includes

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đ.	greater reject 5 percent or company is re For the nucle vendors, Roto manufacturer. cycle and Rot received. Pr based on Cert	corrective action for a re ted parts. If a company ha greater for three consecuti moved from the approved sup ar qualified line, there ar ork, Ltd. and Carboline Comp Both companies are audite ork tracks the quality hist oducts from these two compa- tificates of Conformance.	as a reject rate of ive quarters, the opliers list. re only two qualified bany, the paint ed on a three year tory of the parts
υ.		the QA Manual the inspector	noted that contant
	of equipment reason was no explained tha department. procedures co This finding All returns a Material Requ for review. were for actu 1 had a discr pnuematic act Revision 1, f feedwater non involved chan model valve, documented on March 16, 198 1989 as a com Anchor Darlin required the and 344. The the original Product Form dated Septemb grade order. forms and the reviewed or a review the no	returned for repair, replace it covered by the QA Manual. It all returns are handled by However, there are no writt is identified as Nonconform re listed in a log book, Se est Log. The inspector sel of the 13 packages selected ators for nuclear power pla epancy. SE-4820 was writte uator ordered by Anchor Dar or use at the Fitzpatrick n return checkvalve. Part of ging out two ASCO solenoid but with 6-foot leads. The Nonstandard Product Reques 9. PO 32079 was placed wit mercial grade order. The i g's order to Rotork and not ASCO solenoid valves be cer inspector then asked to se actuator. The inspector re 916 and Rotork's original P er 8, 1988. This PO was al Additional review of the n POS revealed that the QA M pproved any of them. The f nstandard product forms res the failure to include appr	cement, or any other Rotork personnel by the service cen instructions or ent's activities. hance 89-01-05. rvice Request/Returned lected 13 packages for review, only 2 ints, and of those 2, en to modify a ling, PO G-1942 and huclear plant on a the modification valves for the same e modification was it Form 1087, dated that the PO tified to IEEE-323 the the paperwork for eviewed Nonstandard O to ASCO, PO 30878, so a commercial ionstandard product anager had not ailure to have QA ulted in Nonconformance

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resulted in corrective a ASCO, requir	o ASCO and have the QA Manage Nonconformance 89-01-04. Rot ction and issued a modificati ing the valves be manufacture e revised POs were reviewed b	ork took prompt on to the PO to d under ASCO's OA
F. PERSONS CONTACTED:		
Robert Arnold, Presider Daniel Brown, Manufacti Doug Matla, QA Manager Mark Saltzer, Purchasin Fredric Washburn, Engin	uring Manager ng Manager	
All parties listed above at	tended the exit meeting.	