ATTACHED TO A FAM ZI	NOW THO TE INTERNIT	1		
PART 21 IDENTIFICATION NO	80-396-000 CO	PANY NAME Rockwell Internations		
DATE OF LETTER 10/10/60				
DATE DISTRIBUTED 10/22/80 p.m. ORIGINAL REPORT X SUPPLEMENTARY				
DISTRIBUTION:				
REACTOR (R) 🗶	FUEL CYCLE &	SAFEGUARDS (S)		
IE FILES	MATERIALS (M)	IE FILES		
AD/ROI	IE FILES	AD/SG		
AD/RCI	AD/FFM'SI	AD/ROI		
REGIONS I, II, III, IV, V	REGIONS I, II, III, IV, V	REGIONS I, II, III, IV, V		
VENDOR BR. R-IV	VENDOR BR. R-IV	VENDOR BR. RIV		
LOEB / MPA MVB 5715	NMSS / FOMS SS-395	NRR/DOL		
AEOD MNB 7602	LOEB / MPA MNB 5715	NMSS / SG SS-881		
NRR/DOE	AEOD MNB 7602	LOEB / MPA MVB 5715		
NRR/DSI	ASLBP E/W 450	AEOD MNB 7602		
NRR/DST	SAP/SP. MNB-7210A	ASLBP E/W 450		
NRR/DOL .	CENTRAL FILES 016	CENTRAL FILES 016		
ASLBP E/W 450	CENTRAL FILES (CHRON)	CENTRAL FILES (CHRON)		
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ACTION:				
PRELIMINARY EVALUATION OF T	HE ATTACHED REPORT INDICATES	LEAD RESPONSIBILITY FOR		
FOLLOWUP AS SHOWN BELOW:				
IE 😠	NRR	NMSS OTHER		
ROI				
SG FFMSI		REV. 8/1/80		
	- 224	98/1/19		

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Energy Technology Engineering Center Energy Systems Group P.O. Box 1449 Canoga Park, CA 91304 (213) 341-1000

Operated for U.S. Department of Energy



Rockwell International

NAC 84 21 ID# 80-396-000

80ETEC-DRF-4476

October 15, 1980

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Mr. E. F. Weisner, Manager CRBRP Project Operations and Planning Atomics International Division Energy Systems Group P. O. Box 309 Canoga Park, California 91304

Subject: Potential 10CFR21 Defect or Deviation

Dear Mr. Weisner:

The enclosed ETEC Unusual Occurrence Report is transmitted to you for evaluation under the provisions of 10CFR21. NRC has also been informed by copy of this letter as required by the regulation.

If we can be of any assistance in this matter, please contact the undersigned at Ext. 6417.

Sincerely yours,

R. E. Fenton

Manager - Test Engineering

Energy Technology Engineering Center

Enclosure, one copy ETEC Unusual Occurrence Report No. 80-19-GENL-80-02

cc w/encl: Director, Officer of Inspection and Enforcement, NRC

Director, ETEC Project Office, DOE, SS

ENERGY TECHNOLOGY ENGINEERING CENTER

UNUSUAL OCCURRENCE REPORT

	Page <u>1</u> of				
	1. Report Number ETEC-80-19-GENL-80-02 2. Status and Date (X) Initial 10-13-80				
	() Interim () Final				
3.	Division or Project:				
	ENERGY TECHNOLOGY ENGINEERING CENTER (ETEC)				
4.	Facility, System, and/or Equipment: 5. Date of 6. Time of				
	Approved Engineering Test Labs (AETL) 4-Inch Powell Valve (DWG. 80032) Powell Actuator (DWG. 80120) Occurrence: 10-09-80 1700 hours				
7.	Subject of Occurrence:				
	Valve Failed to Operate				
8.	Apparent Cause: Design Material Personnel Procedure Other X (Explain in Item 14)				
9.	Description of Occurrence				
	During performance of the Safe Shutdown Earthquake (SSE) Test in the closed position the valve actuator was observed to rotate approximately 4° in a clockwise direction looking from the valve to the actuator. On completion of the test an attempt was made to open the valve, using the actuator, but the stem did not move. The actuator was rotated back to its original position but the valve still would not open.				
0.	Operating Conditions of Facility at Time of Occurrence:				
	The valve was in the closed position with the valve cavity pressurized to 325 psi and the valve at a temperature of approximately 1000°F average across the body. The valve was secured in the test fixture which was fastened to the shake table. The valve was subjected to the SSE spectrum in both horizontal and vertical axes simultaneously.				
11.	Immediate Evaluation:				
	The method of securing the actuator yoke to the valve assembly seemed to be some type of pinning which railed during the test, allowing the actuator to rotate. However, the problem of not being able to open the valve appeared to be internal to the actuator assembly itself. The valve body was pressurized and held pressure indicating that the body was intact.				
12.	Immediate and/or Temporary Corrective Action Taken and Results:				
	The actuator was rotated back to its original alignment but the valve would not open.				

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13.	Is Further Evaluation and/Or Corrective Action Necessary? Yes			
	If yes, before further operation? Yes			
	If yes, by whom? Powell, Energy Systems Group (E	ISG) and ETEC personnel		
	When? 10-14-80			
14.	Final Evaluation and/or Corrective Action Taken:			
	To be supplied			
15.	Programmatic Impact:			
	Redesign of actuator may be necessary to qualify v	valve assembly for SSE occurrences		
16.	Impact Upon National Codes and Standards, Including RDT Standards:			
	None			
17.	Similar Unusual Occurrence Report Numbers			
	None			
18.	Signatures			
	Originator P. Archbold	Date		
	Cognizant Manager P. E. Fenton R. Fenton	Date 10-14-80		
	Ops. Manager W. S. DeBear	Date 10-14-80 .		