IOWA STATE UNIVERSITY

Nuclear Engineering Program 104 Nuclear Engineering Lab Ames, Iowa 50011-2230 515 294-5840

College of Engineering

Docket No. 50-116

October 25, 1991

Regional Administrator Region III Nuclear Regulatory Commission 799 Roosevelt Road Glen Ellyn, IL 60137

SUBJECT: Special Report of Roll Pin Cracking Found in the Fuel Handling Cones at Iowa State University's UTR-10 Reactor

Dear Sir:

This is a written transcript of the information provided to NRC Region III on October 24, 1991, of roll pin cracking which was observed on October 23, 1991.

Special Report Transcript:

In accordance with the requirements of paragraph 6.6.2 of the Technical Specifications of license R-59, we are making this special report to the NRC.

While performing a low (riched uranium (LEU) fuel element inspection a hairline crack was noticed in the 1/4" x 2" stainless steel roll pin which is pressed into the fuel element handling cone. The roll pin and cone combination provide a means of mating the fuel handing tools of the fuel element. The roll pin supports the weight of the fuel element during insertion and removal operations. Failure of this roll pin while handling fuel could result in a dropped fuel element and mechanical damage of the fuel cladding. Reactor management determined that an inspection of the remaining 11 elements was necessary. The remaining 11 elements were inspected on October 24, 1991, and all exhibited similar cracking.

The cause of the cracking is unknown at this time. Reactor operations have been suspended while the cause of the pin cracking is determined and an appropriate replacement for the roll pins is identified and installed. The ISU UTR-10 Reactor Use Committee has been informed.

End of Transcript.

This notification was made by telephone to the NRC Region III at 1600 hours on October 24, 1991, by John T. Adams, Reactor Supervisor. 1837

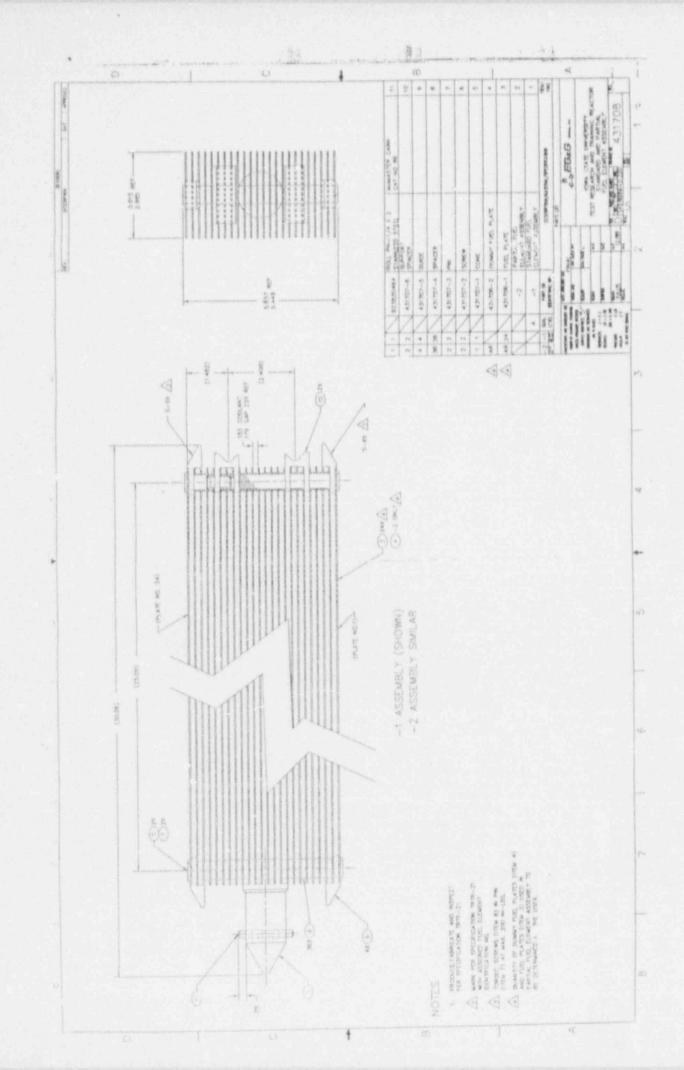
9111010168 911025 PDR ADOCK 050001

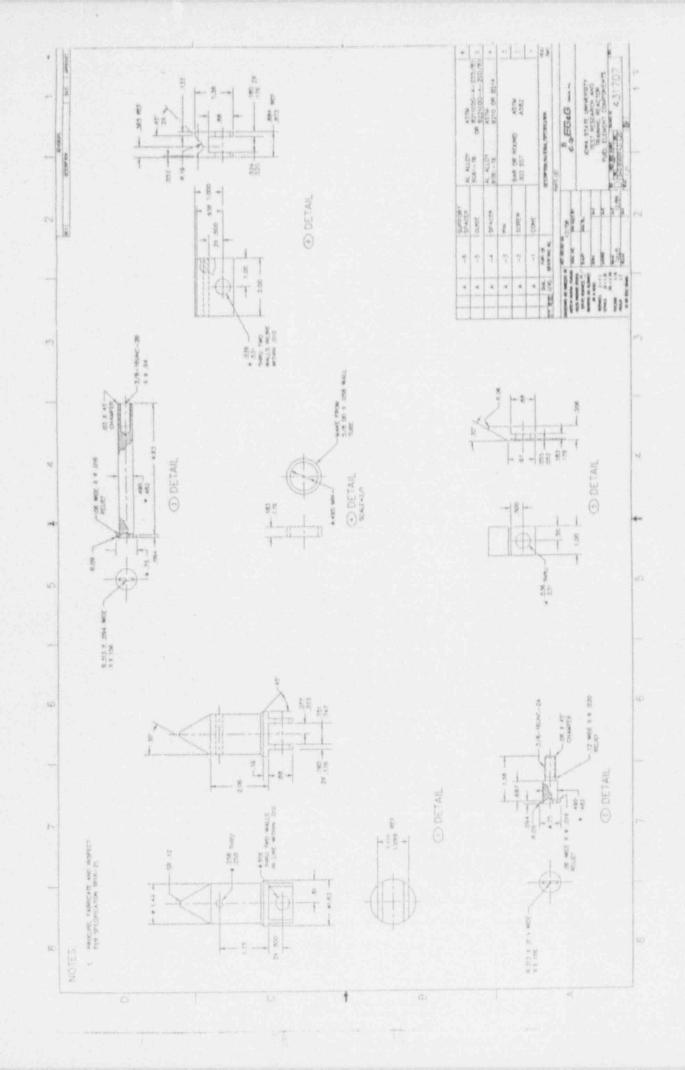
Questions may be directed to Dr. Richard Hendrickson, Reactor Manager at (515)294-6422 or (515)233-1248, or to John Adams, Reactor Supervisor at (515)294-0539.

Sincerely,

Richard A. Danofsky Facility Director

RAD/rp
Enclosure
cc: Charles Cox, NRC Region III
Ted H. Okiishi, Chairman, Mechanical Engineering Department
Richard Hendrickson, Reactor Manager
Tom L. Zimmerman, Chairman, Reactor Use Committee
US NRC Document Control Desk







Baucock	& Wilcox
Haval Nuclear	
Lynchiburg	Virginia

Rolesse No.

B25-001

N/A

NEW PRODUCTS

RAW MATERIAL & STRUCTURAL RELEASE

NPN-QC-0

2 17 83

Distribution

Q.C. Audit & Release (1)

O.C. Foremen

-111

John & Louis

(1) Fuel Plate Only

Accountability

Spec. & Rev. No.

Drawing 431708

(1)

TRTR-21, Revision O, dated 8/20/90

Delease For | Qtv. & Weight

Contract/Job No. C29000113, Task 39

Name

SS Roll Pins

signed O.C. S. almorel

B&W certifies that the supplies listed hereon conform to all contract requirements, including all applicable statistical requirements, and that substantiating data are on file.

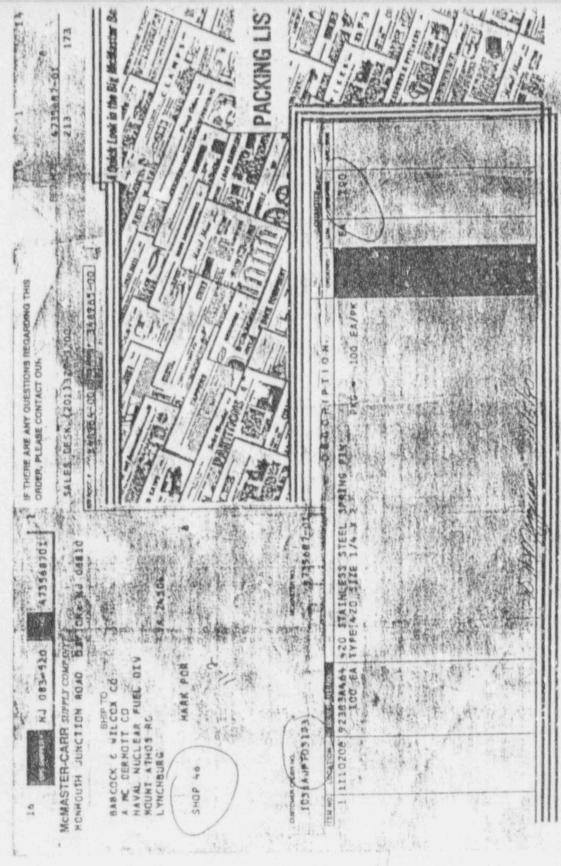
Part No. 92383A464

Identification

Component

ob-Contractor CMaster-Carr Supply Co.		431708	GR/PC.	N/A	Cert.	Production	100
Remarks:							
	Size	: ½" dia. x 2" lg.					
	Туре	: 420					
		According to the second second second second second second					
				-			
W. C.							
						and the second s	-

Waivers:	NONE						
- 18813:	NUNE						
-							



RELIABLITY INTEGRITY SERVICE