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Jerry Clift

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I was one of the last two workers to enter the work area. One of two H.P. personal was setting up for air somple, the other was setting up to minitor for high Level radiation, when vemoving cable from thinkle tubes. Engineer Harold Gammage and fitter David alburg was in the process of shimming the cable drive mechanism. I positioned suggest to feed the cable from its Can container to the drive mechanism. We proceeded to feed the cable tim, on approx, the 50th than in David stopped, he and chuck agreed on the number of turns in . Then before he started to run the cable on in David sugarted that I raise the arch of the sable feed to minimize resistance. On approx, 10 to 15 more turns in we noticed

that the cable had a few small binks, nothing to stop or bind the cable drive. With in the next few turns the cable feed had more resistance, but nothing that required expressive pressure. On Approx from 6 schools to 9 octock position on the drive mechanism was when the break occoured. Expression was the next step.

William Sumpson 4-19-84

20-84 3 TIME OF WRITING THIS REPORT AT ZIZO EASTORN TIME I ENTERED ZONE TO LOCATE THIMBLE POSITIONS TO BE CLEANED. FITTERS NO HP FOLLOWED BEHIND within 10 minutes. THE BASE MOUNT, TOP ESTENSION AND HAND CANNE WERE MOUNTED ON THIMBLE D-R. THE DUMMY CABLE WAS INSIDE THE THIMBLE APPROXIMATELY 10 TO 12 FEET THIS CARLE HAD BEEN RUN INTO THE CORE (ACOUT MIONING OF CORE LENGTH) AND WITHOROWN DURME DRYSHIFT. AS THE END OF THE CABLE APPROPORTED THE SEAL TABLE TRANSFOR REMOINES REABHED 40 R CONTRET SO THE CABLE WAS REMISER TO REDUCE READINGS. IT HAP BEEN DECIDED BECAUSE OF THE DOSE RATES THAT THE HOT END OF THE DABLE WOULD BE CUT OFF, TIED OFF, AND LETT IN THE BELOW THE SEAC TABLE UNTILL A DISPOSAL METHOD COULD BE REACHED. BEFORE CUHING THE CABLE I DECIDED TO RE INSERT THE CABLE TO CLEAN THE THIMBLE As Much As Possible. AT THIS FOINT I ROUGHLY CALONLATED THAT WE NEED TO RUN IN AROUND 120 THANS NE THE WALL ALL /11" - 2100 - 1 - 10 11

MITH 2. HP JECHS, 3 FITTERS, ONE FITTER FOREMAN, AND MYSELF. Brown THE SEAL TABLE AND SERRY CLIFF ON THE PLATFORM BBOYE WE INSTRITED THE DUMMY CABLE TO 50 THENS OF THE CRANK VERITYING THIS POSITION BEFORE PROSEEDING NE THEN NENT TO 68 TURNS AT WhIOH point THE CABLE BEORME_TOUGHER TO INSERT. WE HAD PREVIOUSLY NOT THAT THE CABLE HAD SOME BOUGH SPOTS PRIOR TO 68 TURNS [NO EXCESSIVE FORCE WAS USED AT THIS POINT] THE BREAK OCCURRED AT THIS POINT & 21:57. Initial WATER WAS RELIEVING BETWEEN THE TOP EXTENSION BASE AND THE LOWER BASE. WE IMMEDIATELY LEFT THE SEAL TABLE TO THE AIR LOOK. (THE INNER AND OUTER DOORS OF THE BIRLOOK WERE GLOSED) THE MARK DOOR NAS OPENED AND ALL PERSONNEL LETT. IT WAS WEARING A DIGITAL ALARM DOSERATE MOTER. JUST PRIOR TO THE BREAK THORE WAS I MR READING ON IT FROM THE TIME OF THE BREAK TO WE ENTERPO THE AIRTOCK (Approximately 15 seconds CLAPSED) THE RATE ALARM HAD GOVE OFF AND I HAD A Renowl OF 25 MRJ. We LEFT THE AIRLOOK AND

Tilled AT THE GUARO TO NOTIFY THE CONTROL ROOM of THE INDIDENT. HE MADE SEVERAL CALLS MITHERT REACHING ANYONE SO I LEFT THE BONE AND Reputer EppErson in THE CONTROL Room AND EXPLAINED THE SITUATION AS BEST AS I KNOW IT. ATT FROM E FOUND ONT FROM him LATER TIME THE TIME OF MY CALL WAS 2200 EASTERN THE ALL PERSONELL LEFT THE BREA AND I HAD. THE GUARO ON DUTY TO LOCK THE AIRLOCK AS BEST AS I CAN DETERMANE THE HIGH PRESSURE SEAL BUTWEEN THIMBLE AND THE HIGH PRESSURE LINE FROM THE SEAL TOBLE TOP FAILED CAUSING THE RELEASE. Hann & Jammes HAROLO-H. GAMMOGE

To: Jim Robinson DATE: 4-20-84-0150 A. Subject. Breaking of High Pressure oseal on the seal TAble Time: 2120 signed in on RWP FOR Sent TAble work. I went in with HARold GAMMAge Ahead of The Fitters and marked The Detector PATAS we were going To bruse The Fitters came in APROX. 10 minutes Later consisting of 2 HP Personell, Fitter Foreman C. BAKER, STEAMF. HERS DAVID Albury, Bill Simps And Dewey PASCHAL HARold And DAVID Shimed unous The Guide block To insure it was Tight on The Seal Table. We were going To Run The Cable in The Detector Path one or Two more Times To insure it was Clean before cutting The end of The cable off And movin. To Another Detector PATH. We established THAT D would TURN The CRANK, Chuck BAKER would COUNT Revolutions of The CRANK HANdle, Bill simpson would Hold The overhead Guide Tube And keep The cable STRAIGHT, Dewey PASCHAI would watch The cable in The buckett for bad Places, David made one Revolution with The CRANK HAROH WANTED TO VARILY The Lingth of cable Per crank: HAROld measured The 2" CRANK Then Again The 3th CRANK. EACH CRANK WAS APROX 10". AT This Time HARold Told David And Chuck How many Revolutions David was To Tunn The CRANK. DAvid started, He stopped at 50 Turnsto VARILY The COUNT. DAVID STARTED Again and STopped AT 69 CRANKS Lookee AT The cable and said he did not know whether or NOT it would go, on The 75th crank The cable



L05 840517 800

MAY 17 1984

R. A. Sessoms 1760 CST2-C

Subject: SEQUOYAH NUCLEAR PLANT - UNIT 1 - INCORE THIMBLE EJECTION -

INVESTIGATION AND REVIEW OF EVENTS FOR INDUSTRIAL SAFETY

IMPLICATIONS

Reference: Your memorandum to me dated May 2, 1984 (LO1 840502 803)

As you requested in the referenced memorandum, an investigation committee has conducted an industrial safety evaluation of the subject incident. A report of their findings is attached.

L. C. Ellis Chariman, Investigation Committee

LCE:BLF Attachment cc (Attachment):

NUC PR ARMS, 1520 CST2-C
H. N. Culver, 249A HBB-K
James P. Darling, 1750 CST2-C
Arthur E. Ives, 1350 CUBB-C
C. C. Mason, NUC PR, Sequoyah
Air Robinson, NUC PR, Sequoyah
G. F. Stone, 215 MPB-M

An investigation committee composed of Lonnie C. Ellis, Jim Robinson, and Arthur E. Ives completed an industrial safety evaluation of the subject incident. The evaluation involved an inspection of the seal table area; review of procedures, sketches, and drawings; discussions with Westinghouse; and interviews with the majority of employees involved. Those interviewed were J. Clift, General Foreman; H. Gammage, Engineer; D. Albury, Steamfitter; and S. Harrison and M. Edwards, Health Physics Technicians.

We initially evaluated the incident based on its potential to have resulted in a fatality, hospitalization of five or more of the involved employees, and property damage of greater than \$100,000. Although we would not want to downplay the seriousness of this incident and the stress of the moment, there was in this case adequate prior warning of bubbling and low-volume flow of relatively cool water to allow egress from the most remote point prior to total seal failure and subsequent thimble tube ejection. There were three paths of egress, two of which were remote from each other, and the individuals involved were knowledgeable of them. The air lock was the most desirable and the one used.

The air lock had been out of service for periods of time during the day. Welding under workplan 9606R2 was being done inside the air lock. This necessitated opening the outside door, thereby making the inner door inoperative. Had the incident occurred during this work, egress through the air lock would have been delayed or primary egress would have been through the submarine hatch.

The incident in total will exceed \$100,000 in property damage, cleanup, and restoration. The majority of costs result from the radiological aspects of the incident. The Designated Agency Safety and Health Official and the Office manager were notified of the incident.

We do not believe this investigation was significantly hindered due to the restoration of the area prior to our involvement. Only a visual observation of the ejected tube was not available to us and that was viewed on blown-up photos.

Sequence of Events

Initial cleaning of thimble tubes was begun on March 28, 1984, and was reported complete on April 5, 1984. The unit was in Mode 5. The thimble drive units were reinstalled and the incore probes were inserted to verify adequate cleaning. Several of the cleaned tubes failed to pass the thimble and others previously identified as clear were now identified as plugged.

Sequence of Events (continued)

Subsequently, a maintenance request (attachment 1) was written on April 18, 1984, to dry brush the blocked thimble on the incore monitor tubes. It was assigned to Field Services and was proceeding when the second shift reported on April 19, 1984. Applicable sections of SMI-0-94-1 (attachment 2) were identified under work instructions for reference.

D-12, the tube that failed, was not included in the maintenance request as a tube to be cleaned but was being used to measure the length of the cleaning cable.

A crew of six was assigned to brush the tubes. They were H. Gammage, Engineer; D. Pascal, B. Simpson, and D. Albury, Steamfitters; and S. Harrison and M. Edwards, Health Physics Technicians. The General Foreman, J. Clift, and the Steamfitter Foreman, C. Baker, were also on the seal table platform observing the work and assisting as necessary. Seven of the eight employees were arrayed on the seal table platform operating the brushing mechanism, while the eighth, Mr. Clift, was on the platform above.

The reactor was in Mode 1 (approximately 30 percent power) which places the pressure at 2250 psi and the temperature at 547°F.

The specially designed brushing mechanism is composed of several feet of heliflex cable fed through a stabilizing tube and forced through the thimble tube by a hand crank. Attachment 3 shows a cut-away detail of the thimble tube connection. The hand crank is attached to the thimble tube at point 1, with the brush entering the connection at that point.

The brush had entered at approximately one-half of the tube's 120-foot length and was meeting some slight increased resistance. Various levels of sound were heard by the involved employees and water began flowing from the connection. The tube was not observed being ejected, nor was steam observed at this time. The employees immediately left the platform, opened and entered the air lock, and exited the area. Looking back through the air lock portholes they could see steam begin to build in the room. Exit time from platform to safety in the air lock was no greater than 20 seconds. Under the circumstances, the exit appeared very orderly and there were no injuries.

The failure occurred at the reactor pressure boundary seal, point *2 (attachment 3). This seal is obtained by a 5/16-inch swagelok nut and ferrules crimped onto a smaller stainless steel heavy wall tube expanded to 5/16 inch. This union is protected from external tampering by a plastic boot (point 3).

Market Transfer

Recommendations

- 1) All cleaning and brushing of these tubes should be done with the reactor at Mode 5.
- 2. If for some reason the brushing iteration is required past Mode 5, a thorough prejob safety analysis should be performed and the procedure approved by PORC. As a minimum, a mechanism should be installed to preclude tube ejection and leakage and a clear path of egress should be established.
- A rigidly mounted attachment should be fabricated on which the brushing mechanism and crank would mount which will eliminate any stress or flex on the thimble tube connection. An alternative method of cleaning which would mount independently of the thimble tube would be preferred.
 - 4. All work on any system where there is no secondary pressure boundar, should be evaluated on a case-by-case basis and adequate means to mitigate an inadvertent pressure failure should be applied.
 - 5. Ensure the constant availability of the primary egress route, ie, the air lock. Consideration should be given to leaving the inner dobr open (with the shift engineer's permission) or providing a person to man the door.
 - Ensure that all emergency notification systems are in constant operation. The air lock telephone was out of service during this event.
 - Reinstall the plastic boots or install other means around all reactor pressure boundary seal unions to prevent tampering.
 - Commend the eight employees for their coolness under pressure and their ability to reason through egress options under the stressful situation.

LCE:BLF 5/14/84

ATTACHMENT 1

PRIORITY: EMERGENCY DORSON STREET COMPONING EI 693 Soul Table DESCRIBE WORK REQUESTED. Dry brush blocked thumbles listed	11MST7 9141		11	. /	
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A-2		×-2
A-4		1-4
A-8		E-9
		4-5
A-10		
3-9		H-13
C-1		6.9
C- Z		1-8
c-3		c-5
		13-13
C-4		14-11
C-5		J-14
C-6		J-/
c-7		L-8
25		F-3
C-9		E-5
C-10		
0-6		0-14
D-6		D-3
E-8		F-8
E-9		C-8
F-3		B-3
F-5		N-6

ATTACHMENT 3 EXISTING SWAGELOK LINION -FLARE FITTING SWAGELOK FERRULES THIMBLE TUBE -REACTOR PRESSURE BOUNDARY SEAL PLASTIC BOOT EXISTING SWAGELOK UNION -SWAGELOK NUT T FERRULES REACTOR PRESSURE BOUNDARY SEAL EXISTING THIMBLE GUIDE TUBE -0 - EXISTING 7 SEAL TABLE EXISTING THIMBLE TUBE CONNECTION

October 15, 1985



nuclear · awareness · network

1347½ massachusetts • lawrence, kansas 66044 • (913) 749-1640

Director Office of Administration US Nuclear Regulatory Commission Washington, D.C. 20555

FREEDOM OF INFORMATION ACT REQUEST

To Whom It May concern:

TOTAL BUILDE NO

FOIA-85-706

Que'd 10-21-85

Pursuant to the Freedom of Information Act, U.S.C. 522, as amended, the Nuclear Awareness Network requests the following documents regarding the Wolf Creek Nuclear Generating Plant. Please consider "documents" to include reports, studies, test results, correspondence, memoranda, meeting notes, meeting minutes, working papers, graphs, charts, diagrams, notes and summaries of conversations and interviews, computer records, and any other forms of written communication, including internal NRC staff memorands. The documents are specifically requested from, but not limited to, the following offices of the NRC: Office of Analysis and Evaluation of Operational Data (AEOD); Office of Nuclear Reactor Research (NRR); Office of Nuclear Regulatory Research (Research); Office of Inspection and Enforcement (I&E); Office of Investigations (OI); Generic Issues Branch of the Division of Safety Technology, and the Operating Reactors Branches of the Division of Licensing.

In your response, please identify which documents correspond to which requests below.

Pursuant to this request, please provide all documents prepared or utilized by, in the possession of, or routed through the NRC related to the Wolf Creek Nuclear Generating Plant:

- 1.) Any and all information relating to the "Sequoyah Incident" which would have occurred prior to August 20, 1985-probably during 1984. This incident occurred during a maintainence procedure which involved Chuck Mason and 3 other workers who may have been put in jeopardy. It was purported to have been investigated by the Nuclear Safety Review Staff (NSRS) which is a part of TVA, and reports were made to a Mr. Willis at TVA. Included in this request are any and all documents submitted by TVA, NSRS, and/or Mr. Willis on this subject.
- 2.) Any and all information surrounding an incident on or about August 4, 1985 involving a release, or potential release, or radiation at Wolf Creek into the cooling lake and/or atmosphere.

If any of the material covered by this request has been destroyed and/or removed, please provide all surrounding documentation, including but not limited to a description of the action(s) taken, relevant date(s), and justification(s) for the actions.

For any documents or portions that you deny due to a specific FOIA exemption, please provide an index itemizing and describing the documents or portions of documents withheld. The index should provide a detailed justification of your grounds for claiming each exemption, explaining why each exemption is relevant to the document or portion of the document withheld. This index is required under Vaughn v. Rosen (I), 484 F.2d 820 (D.C. Cir. 1973), cert. denied, 415 U.S. 977 (1974).

We look forward to your response to this request within ten days.

Sincerely,

Stevi Stephens

Levi Stephens