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PLANT AND SYSTEM IDENTIFICATION:

Westinghouse - Pressurized Water Reactor

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

IDENTIFICATION OF OCCURRENCE:

Reactor Trip From 66% With Resultant Safety Injection

Event Date: 07/25/84

Report Date: 08/24/84

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 066 % - Unit Load 0700 MWe

DESCRIPTION OF OCCURRENCE:

On July 25, 1984, during routine power operation, conditions were being restored to normal in the final steps of the Pressurizer Overpressure Protection System (POPS) functional test. The POPS functional test is performed on two independent trains. It requires that the Power Operated Relief Valve (PORV), for the train being tested, be isolated from the Pressurizer. This is done by closing the associated PORV block valve. With the PORV block valve closed, the PORV can be stroke timed, as required, without affecting normal system operation.

The test was started and satisfactorily completed on Train B of the POPS. The system was then returned to normal (i.e., the PORV block valve was opened). The test on Train A of the POPS was also satisfactorily completed. When the PORV block valve (2PR6) was opened, Reactor Coolant System [AB] pressure began to rapidly decrease. The Reactor Operator immediately initiated a close signal to block valve 2PR6. However, when the valve failed to close in the required time (less than ten seconds), the operator immediately reverified that the PORV on Train A (2PR1) and the PORV and associated block valve on Train B (2PR2 and 2PR7 respectively) were closed. He then attempted to reduce the severity of the transient by manually starting a centrifugal charging pump [CB]. At the same time, the other operator began shedding load, in approximately one-hundred (100) MWe increments, to further reduce the effects of the transient.

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DESCRIPTION OF OCCURRENCE: (cont'd)

This action reduced the rate of pressure drop slightly; however, pressure continued to decrease. When pressure had decreased to 1865 psig, the logic for a reactor trip was met, and a reactor trip did occur. Pressure continued to drop to the safety injection initiation setpoint of 1765 psig, at which time, an automatic safety injection occurred. The Reactor Protection System and all Engineered Safety Feature Systems and Emergency Core Cooling Systems functioned as designed during the transient. Following the safety injection and the subsequent closure of 2PR6, the plant recovered to normal operating parameters.

APPARENT CAUSE OF OCCURRENCE:

The depressurization transient was initiated by the inadvertent opening, and failure to reseat, of Pressurizer Overpressure Protection System (POPS) relief valve 2PR47. The transient was not able to be immediately terminated, due to the failure of 2PR6 to close in the required time frame, resulting in the reactor trip and safety injection. The failure of 2PR6 to close in the required time was attributed to either a broken wire in the valve operator, a minimum recommended torque switch setting, attempted reversal of the valve direction (while the valve was in a "mid-stroke" position), or a combination of all three. See the "Corrective Action" section of this LER for a more detailed description and resolution of these individual problems.

ANALYSIS OF OCCURRENCE:

The inadvertent opening of 2PR47, coupled with the failure of 2PR6 to close in the required time, resulted in an inadvertent depressurization of the Reactor Coolant System. As previously stated, the Reactor Protection System, all Engineered Safety Feature Systems and Emergency Core Cooling Systems functioned as designed during the transient. Had 2PR6 remained open, the Safety Injection flow would have established and maintained an equalibrium pressure in the Reactor Coolant System. With the procedures in effect, the operator had sufficient direction to bring the plant to cold shutdown conditions. Section 15.2.12 of the Updated Final Safety Analysis Report (UFSAR) analyzes the accidental depressurization of the Reactor Coolant System. This section concludes that there is adequate core protection for the opening of a pressurizer safety valve, which is the limiting case. Since the opening of 2PR47 is considerably less severe than the opening of a safety valve (due to the significant difference in flow capacity), the conclusions reached in Section 15.2.12.4 of the UFSAR are valid for this occurrence as well. Therefore, this occurrence involv d no undue risk to the health or safety of the public. Due to the automatic actuation of the Reactor Protection System and the Engineered Safety Feature, the event is reportable in accordance with the Code of Federal Regulations, 10CFR 50.73(a)(2)(iv).

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CORRECTIVE ACTION:

The Unit was cooled down to Mode 5, and a thorough investigation of the incident commenced. The Station Operations Review Committee met to reconstruct the sequence of events, and review the occurrence. In addition to the obvious questions of why 2PR47 inadvertently opened, and why 2PR6 took 4.5 minutes to close, SORC expressed the following concerns related to the occurrence, and requested that these concerns be addressed during the investigation.

(1) What caused 2RC43 (Reactor Head Vent Solenoid Valve) to pop open at the beginning of the transient?

Does this valve performance create the potential for future leakage paths?

- (2) What was the cause of the elevated tailpipe temperature on 2PR5 (Pressurizer Code Safety Valve)?
- (3) What was the cause of the leakage on the bellow seals on 2PR5?
- (4) Is the relief valve (2CV241) on the Volume Control Tank sized to accommodate the recirculation flow from both charging pumps?

If so, why was the valve damaged from the high recirculation flow?

- (5) The present design of 2PR6 allows the operator to reverse the direction of the valve travel. Is this an acceptable practice that will not damage the motor or limitorque gear train?
- (6) If question 5 is not an acceptable practice, what other valves are of similar design to 2PR6?
- (7) 2PR47 (POPS Relief Valve) had been previously seal welded to prevent leakage to the containment atmosphere. Could this work have adversely affected the valve, to cause it to pop open?

After extensive research and testing, the following conclusions were reached and corrective actions were taken:

Inspection of valve 2PR47 revealed that the valve was open. Particles from the valve magnet had lodged in the pilot stem, preventing the pilot valve from closing. 2PR47 is a solenoid valve; these type valves are known to "burp" (pop open and reseat during pressure transients). The valve apparently "burped" while testing 2PR1, and the magnetic particles wedged in the pilot stem and prevented the valve from reseating. Seal welding of the valve was not the cause of the failure.

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CORRECTIVE ACTION: (cont'd)

2PR47 and 2PR48 (POPS Relief Valves) served no purpose, because the relief function of these valves had been previously replaced with modifications to the circuitry of the PORV valves (2PR1 and 2PR2). This had been accomplished due to previous problems with 2PR47 and 2PR48, and the valves were scheduled for removal in the near future. Due to this occurrence, both valves were removed from the system. Unit 1 design does not contain POPS Relief Valves.

Motor Operated Valve Analysis and Testing Systems (MOVATS) tested 2PR6. The valve operated satisfactorily, with a closure thrust of 6700 pounds. Per Velan (the valve manufacturer), the required valve closure thrust is 4900 pounds, indicating that the valve should have closed.

Records indicate that this valve was reworked in April, 1984, at which time, the wedge and Limitorque operator were replaced. A calculation of the valve thrust and torque values, with information supplied by Limitorque, indicated that a light torque switch spring was installed in the operator. The close torque switch setting was found to be one and one-half (1 1/2). Velan's minimum reco mended setting is one and one-quarter (1 1/4). Although the valve tested satisfactorily, Velan recommended that this setting be two and one-half (2 1/2). This setting would represent approximately 8000 pounds of thrust; and even if a heavy torque spring was present in the operator, it would not be damaging to the valve. The close torque switch settings of 2PR6 and 2PR7 were railed to the recommended value.

Upon electrical disconnection of the valve for internal inspection, the limitorque operator was found to contain a broken wire. This seven strand wire carries control voltage to the valve for opening and closing functions. Oxidation of the strands indicated that two of the strands were broken for some time, with the other five strands indicating a more recent break. The bolts at the base of the valve were found to be slightly loose, which allowed a small amount of valve operator movement. Since the wire run was taut, it is suspected that vibratory action of the valve broke the wire. The break was enclosed in sleeving, and the wire apparently was making intermittent contact during valve vibration. The broken wire was repaired. 2PR7 was also inspected; however, no similar problems were noted.

2PR6 was disassembled and inspected. Inspection of the wedge rails revealed no signs of galling, and the valve internals were found to be in excellent condition.

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CORRECTIVE ACTION: (cont'd)

Upon investigation of 2PR6 design, which allows reversing of valve direction at any time, the Station was informed by Limitorque that this was an undesirable design, due to the possibility of shearing the keyway on the pinion gear. In addition, while performing calculations for required valve torque, it was discovered that the coefficient of friction value (which is used in the calculation) may not be valid during periods of direction reversal while the valve is in a "mid-stroke" position. What this means, is that the required torque, during valve reversal operations, may be greater than previously calculated. Since this possibility exists, and because Limitorque has expressed the opinion that this is an undesirable design, 2PR6 and 2PR7 valve circuitry has been modified to prevent direction reversal until the valves have completed their stroke (open or shut). In addition, twenty-seven (27) valves of a similar design have been identified in various safety-related systems. SORC Open Item No. 84-101-04 has been established to receive further clarification from Limitorque on what they mean by the term "undesirable". Based on the results, a determination will be made as to which, if any, Limitorque motor operated valves require modification. In the interim, the appropriate procedures have been changed to caution the operators against reversing direction until the valves have completed their stroke.

2RC43 was found to be operating satisfactorily. This valve is a solenoid valve. A recently conducted head vent test revealed that this valve also "burps" during pressure transients. However, the system has been designed such that, even if the valve were to fail open, a Small Break Loss of Coolant Accident would not occur. Even though no concern exists, from the standpoint of nuclear safety on the use of this type of valve in this particular application, PSE&G is investigating the possibility of an alternative type of valve.

Because of the elevated tailpipe temperatures on 2PR5, the valve was removed and sent to Wyle Laboratory for testing. The valve exhibited seat leakage during testing; therefore, a replacement valve was installed. SORC noted that there have been many problems, such as drifting setpoints and leakage with safety valves. SORC Open Item No. 84-101-02 addresses an engineering investigation of the problems associated with Crosby Pressurizer Safety Valves. The purpose of the investigation is to determine whether the problems are unique to Crosby Safety Valves, or safety valves in general.

The bellows on 2PR5 was successfully tested with nitrogen gas, and found to be intact. The leakage was attributed to leak-off lines from the safety valves, which tie into the pressurizer relief line. Blanks were installed in these lines to prevent recurrence.

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CORRECTIVE ACTION: (cont'd)

Investigation revealed that the VCT relief valve (2CV241) is, in fact, sized properly. 2CV241 was not damaged; however, it suffered an isolated case of seating O-ring failure. The O-ring was replaced. As a conservative measure, the VCT was visually inspected for signs of overpressurization. The inspection results were satisfactory.

In addition, SORC Open Item No. 84-101-05 was issued to evaluate the occurrence for Operator performance/lessons learned. The results are then to be applied to applicable training programs, including Operator Requalification.

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General Manager-Salem Operations

JLR:tns

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SORC Mtg 84-113



Public Service Electric and Gas Company P.O. Box E. Hancocks Bridge, New Jersey 08038

Salem Generating Station

August 24, 1984

U.S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

Dear Sir:

SALEM GENERATING STATION LICENSE NO. DPR-75 DOCKET NO. 50-311 UNIT NO. 2 LICENSEE EVENT REPORT 84-018-00

This Licensee Event Report is being submitted pursuant to the requirements of 10CFR 50.73(a)(2)(iv). This report is required within thirty (30) days of discovery.

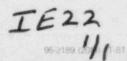
Sincerely yours,

for futhig

J. M. Zupko, Jr. General Manager -Salem Operations

JR:kll

CC: Distribution



The Energy People