| I 'GENSEE I | EVENT REPORT |
|--|---|
| CONTROL BLOCK | (PLEASE PRINT ALL REQUIRED INFORM |
| 1 6 | ICINST EVENT |
| NAME LICENSE NUM | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| 01 CONT TT TT L 0 5 0 - 0 | DER EVENT DATE REFORT DATE 2 1 9 0 7 0 1 7 6 0 7 1 4 68 69 74 75 75 |
| EVENT DESCRIPTION | was permitted to reach an indicated level of |
| 7 B 9 | ification limit by 0.4%. Steps were initiate |
| 0 9 1 5.45 which exceeded the recimical spee | (50 210/76 17 1P) |
| 04 immediately to purge the torus to less | than 5% oxygen. (50-219/76-17-1P) |
| | |
| | |
| $\begin{array}{c ccccc} & B & 9 & & & & PRE \\ & SVSTEM & CAUSE & COMPONENT CODE & COMPONENT CODE & SUPP \\ \hline CODE & COMPONENT CODE & SUPP \\ \hline D7 & S & B & A & X & X & X & X \\ 7 & B & 9 & 1C & 11 & 12 & 17 & 4 \\ \hline CAUSE & DESCRIPTION & & & & \\ \hline \end{array}$ | $\begin{array}{c} \text{MENT} & \text{CDMPOVENT} \\ \text{WENT} & \text{MANUFACTURER} & \text{VOLATION} \\ \\ \text{LER} & \text{MANUFACTURER} & \text{VOLATION} \\ \\ \text{3} & 44 & 47 & 48 \end{array}$ |
| The event was due to the erratic behav | ior of the torus oxygen analyzer following |
| 7 8 9 | s amplified by a gas sample flow adjustment |
| [0] [calibration. The erratic operation wa | s amprilled by a gas sample break in |
| which caused the indicated oxygen leve | I to drop to 2%. The true oxygen level in |
| FACALITY STATUS N POWER OTHER STATUS 11 E 0 9 2 NA 2 8 9 10 12 13 | DISCOVERY DESCRIPTION B Calibration of Torus Oxygen Anal 44 45 46 |
| TOTAL OF ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY NA X 8 9 10 11 | LOCATION OF RELEASE NA |
| PERSONNEL EXPOSURES | 그는 그는 것 같은 것 같은 것 같은 것 같아? |
| | NA |
| PERSONNEL INJURIES | |
| | NA |
| 89 11 12 | |
| Probable Consequences | NA |
| | DOOD ODIOINAL |
| | NA FUUR URIGINAL |
| | 174 |
| PUBLICITY | NA |
| 117 [| NA |
| ADDITIONAL FACTORS - Cause Description - | Continued |
| 10 the torus was discovered 9 hours later | when the analyzor was recalibrated. |
| / 8.9 | |
| 10 | |
| | |

Jersey Central Power & Light Company



MADISON AVENUE AT PUNCH BOWL ROAD . MORRISTOWN, N. J. 07960 . 201-539-6111

) Public Utilitie: Corporation

OYSTER CREEK NUCLEAR GENERATING STATION Forked River, New Jersey 08731

General Decore

Licensee Event Report Reportable Occurrence No. 50-219/76-17-1P

Report Date

July 14, 1976

Occurrence Date

July 1, 1976

Ider .. fication of Occurrence

Violation of the Technical Specifications, paragraph 3.5.A.5, when the indicated oxygen concentration in the torus exceed the 5% limit. This event is considered to be a reportable occurrence as defined in the Technical Specifications, paragraph 6.9.2.a.2.

Conditions Prior to Occurrence

The major plant parameters at the time of the occurrence were as follows:

| Power: | Reactor, 1768 MWt |
|------------|---|
| | Generator, 585 MWe (3) |
| Flow: | Recirculation, 58.5 x 10 ⁶ lb/hr |
| | Feedwater, 6.58 x 10 ⁶ 15/hr |
| Stack Gas: | 9500 µci/sec |

Description of Occurrence

On Thursday, July 1, 1976, at approximately 0930 hours, following a calibration of the torus oxygen analyzer, it was observed that the torus oxygen concentration as indicated by the analyzer was 5.4%. Steps were initiated immediately to purge the torus to less than 5% and by 1130 hours, the oxygen concentration was reduced to 4.5%. The sequence of events which led to the violation were as follows:

On Wednesday, June 30, 1976, on the 4 to 12 midnight shift, the torus oxygen analyzer failed down scale. Maintenance per somel were contacted and the analyzer was repaired, calibrated and returned to service. On the 12 midnight Reportable Occurrence No. 50-219/76-17-1P Page 2

to 8 shift, the torus oxygen analyzer began to behave erratically. The Group Shift Supervisor on duty at the time made an adjustment in the gas sample flow rate in an effort to correct the erratic behavior. The flow adjustment caused a change in the calibration of the analyzer and amplified its erratic behavior. The calibration change caused the indicated oxygen concentration to drop to the 2% level. It remained at this level for a nine hour period until 0930 of the 8 a.m. to 4 p.m. shift when another calibration was performed which revealed the high 0₂ concentration.

Apparent Cause of Occurrence

Because of the change in sample flow and the subsequent distorted analyzer operation, the slow ascent over the 5% oxygen limit was not realized.

Analysis of Occurrence

Containment inerting requirements are based upon assumed zirconium metal/water reactions producing hydrogen gas in the containment during a design bases loss of coolant accident. It is postulated that by maintaining less than 5% oxygen in the containment, an explosive mixture of oxygen and hydrogen will not result. The safety significance of this event is considered minimal since any hydrogen produced would be released into the drywell atmosphere which at the time of the occurrence was $.3\% 0_2$. Since during a design bases LOCA all the drywell gases are forced into the torus, an oxygen concentration less than 5% would have resulted in the torus shortly after the start of the LOCA.

Corrective Action

On July 1, 1976, the torus atmosphere was purged with nitgogen until the analyzer indicated a concentration of 3.8%. Periodic torus purging will be continued to maintain acceptable oxygen concentration. The torus 0_2 analyzer was calibrated and returned to service. In addition, the drywell 0_2 analyzer was temporarily connected to the torus sample flow as a cross check with the torus 0_2 analyzer, and both analyzers were in close agreement. A grab sample was obtained and sent to an independent laboratory for analysis. The laboratory analysis indicated correct analyzer calibration. To prevent recurrence, the following recommendations will be put into effect: (1) a caution tag will be affixed to the oxygen analyzer will be reviewed in the Operator Training Program.

Failure Data

N/A