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| **WANO Event ReportWANO Atlanta Centre, 2013-0007** | **Earthquake Results in Emergency Preparedness Plan ActivationDiablo Canyon 1, 21/10/2012** | **Revision Number00 - Posted date09/01/2013** |

*None*

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| Unit (Year) :  | Diablo Canyon 1 (1985)  |
| Additional Units :  | Diablo Canyon 2 |
| Reactor Type :  | PWR |
| Reactor Manufacturer :  | Westinghouse (WH) |
| Plant Designer :  | Pacific Gas & Electric Company |
| Event Date :  | 21/10/2012 |
| INES :  | N/A |

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| Reference :  | INPO OE 301145 |



OECT Information

Summary
A 5.3 magnitude earthquake occurred approximately 90 miles north of the plant resulting in an Unusual Event being declared. No damage occurred at the plant as a result of this seismic event.

Causes
The motion felt in Unit 1 and Unit 2 control rooms was caused by a 5.3 magnitude earthquake which occurred approximately 90 miles north of the plant.

Keywords
earthquake,seismic event

References

Summary

A 5.3 magnitude earthquake occurred approximately 90 miles north of the plant resulting in an Unusual Event being declared. No damage occurred at the plant as a result of this seismic event.

Description

An earthquake was felt on site at approximately 0009 PDT on 10/21/2012. DCPP had confirmed two out of three of the criteria for declaring an Unusual Event were met (i.e. the earthquake was felt in the control room and the earthquake was confirmed by the USGS [U.S. Geological Survey] Web site). All the necessary walk downs and equipment checks were performed and verified no damage to the plant. Both units remained stable at 100% power.

Consequences

An earthquake was felt, requiring the declaration of an Unusual Event. The event was non-consequential because all necessary walk downs and equipment checks were performed and verified no damage to the plant. Both units remained stable at 100% power.

Analysis/Comments

The motion felt in Unit 1 and Unit 2 Diablo Canyon Control Room was caused by a 5.3 magnitude earthquake which occurred approximately 90 miles north of the plant.

Corrective Actions

All the necessary equipment checks, tests, and walk downs of the plant and intake structure were completed to verify no damage had occurred due to the earthquake. No damage was identified.

Attachments

Coded Fields

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| **Field** | **Code** | **Description** |
| Category | 08 | Other events involving plant safety or reliability |
| Consequences | 10 | Non consequential or near miss |
| Systems | 000 | NONE or Unidentified |
| Components | 000 | UNIDENTIFIED or no specific component involved (This code to be used where inappropriate human action is the direct cause of the event) |
| Status | 110 | Steady Power Operation |
| Activity | 05 | Normal equipment operations formerly Normal Operations (before 2012-06) |
| Group | 490 | All Groups |
| Direct Cause | 0704 | Earthquake |
| Root Cause |  |  |
| Causal Factor |  |  |

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| **WANO Event ReportWANO Atlanta Centre, 2013-0008** | **Earthquake Results in Emergency Preparedness Plan ActivationSeabrook 1, 16/10/2012** | **Revision Number00 - Posted date09/01/2013** |

*None*

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| Unit (Year) :  | Seabrook 1 (1990)  |
| Additional Units :  |  |
| Reactor Type :  | PWR |
| Reactor Manufacturer :  | Westinghouse (WH) |
| Plant Designer :  | United Engineers & Constructors (UE&C) |
| Event Date :  | 16/10/2012 |
| INES :  | N/A |

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| Reference :  | INPO OE 301212 |



OECT Information

Summary
Due to an earthquake felt by control room operators and confirmed by a reliable source, an unusual event was declared. Following confirmation that all safety related equipment was functioning per design and that no plant damage resulted from the tremor, the unusual event was exited. News reports listed the earthquake as a magnitude 4.5.

Causes
The cause of earthquake was natural phenomena.

Keywords
earthquake

References

Summary

Due to an earthquake felt by control room operators and confirmed by a reliable source, an Unusual Event was declared at 1920 on 10/16/12. Following confirmation that all safety related equipment was functioning per design and that no plant damage resulted from the tremor, the Unusual Event was exited at 01:49am. News reports listed the earthquake as a magnitude 4.5.

Description

During a refueling outage, due to an earthquake felt by control room operators on duty and confirmed by a reliable source, an Unusual Event was declared at 1920 on 10/16/12.

The earthquake occurred shortly after 19:00 and was centered 58 miles away in Hollis Center, Maine. Although no seismic alarm was received in the control room, review of emergency response procedures determined that declaration of an Unusual Event was warranted. That declaration was made at 19:20 and notification of the states was completed 6 minutes later. The Technical Support Center was fully staffed by 19:40.

The Emergency Response team worked with Operations to coordinate a comprehensive inspection of all safety related equipment, components and structures. An immediate walk down was performed by Operations of all in-service safety related equipment. This was followed up by Engineering performing a detailed plant walk down using their post seismic event procedure. They were accompanied by the NRC senior resident. I&C Maintenance reviewed the data from the seismic recorders and monitoring system and confirmed that no thresholds for recorders or alarm setpoints had been exceeded.

Following confirmation that all safety related equipment was functioning per design and that no plant damage resulted from the tremor, the Unusual Event was exited at 01:49am.

News reports listed the earthquake as a magnitude 4.5.

Consequences

An earthquake was felt, requiring the declaration of an Unusual Event. The event was non-consequential because all necessary walk downs and equipment checks were performed and verified no damage to the plant.

Analysis/Comments

Natural Phenomena

Corrective Actions

Immediate Actions: A comprehensive inspection of all safety related equipment, components and structures was conducted; no damage was identified.

Attachments

Coded Fields

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| --- | --- | --- |
| **Field** | **Code** | **Description** |
| Category | 08 | Other events involving plant safety or reliability |
| Consequences | 10 | Non consequential or near miss |
| Systems | 000 | NONE or Unidentified |
| Components | 000 | UNIDENTIFIED or no specific component involved (This code to be used where inappropriate human action is the direct cause of the event) |
| Status | 160 | Refuelling Operations or Open Vessel - All some fuel inside core |
| Activity | 60 | Fuel Handling / Refuelling Operations |
| Group | 490 | All Groups |
| Direct Cause | 0704 | Earthquake |
| Root Cause |  |  |
| Causal Factor |  |  |

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