

February 11, 2016

MEMORANDUM TO: Biweekly Notice Coordinator

FROM: John B. Hickman, Project Manager */RA/*
Reactor Decommissioning Branch
Division of Decommissioning, Uranium Recovery,
and Waste Programs
Office of Nuclear Material Safety
and Safeguards

SUBJECT: REQUEST FOR PUBLICATION IN BIWEEKLY *FEDERAL REGISTER* - NOTICE OF CONSIDERATION OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE, PROPOSED NO SIGNIFICANT HAZARDS CONSIDERATION DETERMINATION, AND OPPORTUNITY FOR A HEARING (TAC NOS. L53114 AND L53115)

ZionSolutions, LLC. (ZS), Docket Nos. 50-295 and 50-304, Zion Nuclear Power Station (ZNPS), Units 1 and 2, Lake County, Illinois.

Date of amendment request: January 7, 2016. A publicly available version is in ADAMS under Accession No. ML16008B080.

Description of amendment request: The amendment would approve a revision to the ZNPS Defueled Station Emergency Plan (DSEP) to implement an Independent Spent Fuel Storage Installation (ISFSI)-Only emergency plan. The major proposed changes to the DSEP include the removal of non-ISFSI related emergency event types; transfer of responsibility for implementing the emergency plan to ISFSI Management, and a revised emergency plan organization.

Basis for proposed no significant hazards consideration determination: As required by 10 CFR 50.91(a), the licensee has provided its analysis of the issue of no significant hazards consideration, which is presented below:

1. Does the proposed amendment involve a significant increase in the probability or consequences of an accident previously evaluated?

Response: No

ZS has, in effect, an NRC-approved emergency plan. The credible accidents involving the ISFSI and MAGNASTOR system have been analyzed and determined that none result in doses to the public beyond the owner-controlled boundary (Figure 2-2 of the emergency plan) that would exceed the EPA PAGs. These analyses have not changed. With decommissioning completed, the ZNPS site-related accidents previously analyzed are no longer credible.

Therefore, the proposed change does not involve a significant increase in the probability or consequences of an accident from any accident previously evaluated.

2. Does the proposed change create the possibility of a new or different kind of accident from any accident previously evaluated?

Response: No

ZS has, in effect, an NRC-approved emergency plan. The credible accidents involving the ISFSI and MAGNASTOR system have been analyzed and determined that none result in doses to the public beyond the owner-controlled boundary that would exceed the EPA PAGs. With decommissioning substantially completed (Safe Transition to an ISFSI only E-plan is contingent on reducing plant side curie content to a level where a credible scenario no longer exists which could trigger a plant side Emergency Action Level (EAL) Threshold Value. Safe Transition will be a bounding number based on a calculated value of plant side curie inventory and will occur prior to the completion of decommissioning sometime in late 2016 or early 2017); the ZNPS site accidents previously analyzed are no longer credible. Accidents associated with the ISFSI are addressed in the MAGNASTOR FSAR.

Therefore, the proposed change does not create the possibility of a new or different kind of accident from any accident previously evaluated.

3. Does the proposed amendment involve a significant reduction in a margin of safety?

Response: No

Margin of safety is related to the ability of the fission product barriers (fuel cladding, primary containment) to perform their design functions during and following postulated accidents. ZS has, in effect, an NRC-approved

emergency plan. The credible accidents involving the ISFSI and MAGNASTOR system have been analyzed and determined that none result in doses to the public beyond the owner-controlled boundary that would exceed the EPA PAGs. With spent fuel located at the ISFSI and decommissioning substantially completed, the ZNPS plant-related accidents previously analyzed are no longer credible.

Therefore, the proposed amendment does not involve a significant reduction in the margin of safety.

The NRC staff has reviewed the licensee's analysis and, based on this review, it appears that the three standards of 50.92(c) are satisfied. Therefore, the NRC staff proposes to determine that the amendment request involves no significant hazards consideration.

Attorney for licensee: Russ Workman, Deputy General Counsel, EnergySolutions, 423 West 300 South, Suite 200, Salt Lake City, UT 84101

NRC Branch Chief: Bruce A. Watson, CHP.

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