



Nebraska Public Power District

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NLS2017005
January 13, 2017

50.46(a)(3)(ii)

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Subject: Annual Report of Changes and Errors in Emergency Core Cooling System
Evaluation Models for 2016
Cooper Nuclear Station, Docket No. 50-298, DPR-46

Dear Sir or Madam:

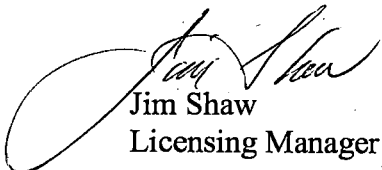
The purpose of this letter is to submit the 2016 annual report of changes and errors in the Emergency Core Cooling System (ECCS) evaluation models pursuant to 10 CFR 50.46(a)(3)(ii) for Cooper Nuclear Station (CNS).

There were no changes or errors affecting the licensing basis peak clad temperature (PCT) in 2016. CNS continues to comply with the PCT limit of 2200°F specified in 10 CFR 50.46(b)(1) for both GE14 and GNF2 fuel types. The attachment to this letter provides current data that demonstrates compliance with the ECCS performance requirements of 10 CFR 50.46.

This letter makes no regulatory commitments.

If you have any questions regarding this report, please contact Brandi Walborn, Acting Reactor and Fuels Engineering Supervisor, at (402) 825-2743.

Sincerely,



Jim Shaw
Licensing Manager

/lb

Attachment: 10 CFR 50.46 Criteria in Emergency Core Cooling System Evaluation Models for 2016; Nebraska Public Power District - Cooper Nuclear Station

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cc: Regional Administrator w/attachment
USNRC - Region IV

Cooper Project Manager w/attachment
USNRC - NRR Plant Licensing Branch IV

Senior Resident Inspector w/attachment
USNRC- CNS

NPG Distribution w/attachment

CNS Records w/attachment

10 CFR 50.46 Criteria in Emergency Core Cooling System Evaluation Models for 2016
Nebraska Public Power District - Cooper Nuclear Station

| Fuel Type | Licensing Basis PCT (°F) | Local Oxidation (%) | Core-Wide Metal-Water Reaction (%) |
|------------------|---------------------------------|----------------------------|---|
| GE14 | 2150 | <6.00 | <0.10 |
| GNF2 | 2150 | <6.00 | <0.10 |