NRC Request: A.a

Provide reference cited in Appendix 3J - Structural Assessment of High Burnup Cladding Performance during Period of Extended Operation: [Reference 3J.5.4]

[

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AREVA Response:

Reference 3J.5.4 from the CoC 1004 Renewal Application is provided in Enclosure 4.

NRC Request: A.b

Provide reference cited in Appendix 3H - Evaluation of Additional Cladding Oxidation and Additional Hydride Formation Assuming Breach of Dry Shielded Canister Confinement Boundary: [Reference 3H.5.16] **[**

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AREVA Response:

Reference 3H.5.16 from the CoC 1004 Renewal Application will be provided to the NRC in a separate transmittal pursuant to an EPRI/AREVA document-transfer protocol.

NRC Request: B.a

Appendix 3D – Dry Shielded Canister Poison Plates Boron Depletion Evaluation. Submit, for staff review, the applicable computer analysis MCNP input and output files for Table 3D-2 - Boron-10 Depletion Results.

AREVA Response:

The summary listing of the MCNP input and output files is provided in Enclosure 11 with the computer files provided in Enclosure 5.

NRC Request: B.b

Appendix 3E – Evaluation of Neutron Fluence and Gamma Radiation on Storage System Structural Materials. Submit, for staff review, the applicable computer analysis SCALE input and output files and results for neutron fluence and gamma radiation.

AREVA Response:

The summary listing of the SCALE input and output files is provided in Enclosure 11 with the computer files provided in Enclosure 6.

NRC Request: B.c

Appendix 3F - Confinement Evaluation of 24P and 52B Non-Leaktight DSCs,

Appendix 3K - Defense-in-Depth Dose Assessment Assuming Breach of Confinement during Period of Extended Operation,

Appendix 3L - Defense-in-Depth Evaluation of Dry Shielded Canister Internal Pressures Assuming High Burnup Fuel Cladding Failure during Period of Extended Operation.

Submit, for staff review, the calculations referred to in this appendices.

AREVA Response:

The calculation associated with Appendix 3F is provided in Enclosure 8. The calculation associated with Appendix 3K is provided in Enclosure 9. The calculation associated with Appendix 3L is provided in Enclosure 10. These calculations are proprietary in their entirety.

NRC Request: B.d

Appendix 3M – Defense-in-Depth Structural Evaluation of Dry Shielded Canister Confinement and Retrievability Assuming High Burnup Fuel Cladding Failure during Period of Extended Operation.

Appendix 3N – Bounding Evaluation of Dry Shielded Canister with Reduced Shell Thickness Due to Chloride-Induced Stress Corrosion Cracking under Normal and Off Normal Conditions of Storage during Renewal Period.

Submit, for staff review, the applicable computer analysis ANSYS input and output files for the DSC calculations in these appendices.

AREVA Response:

A summary listing of the ANSYS input and output files used in Appendices 3M and 3N is provided in Enclosure 11. The associated computer files are provided in Enclosure 7.