

ATTACHMENT B

Proposed Technical Specifications, Unit 2

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REFUELING OPERATIONS

3/4.9.6 REFUELING MACHINE

LIMITING CONDITION FOR OPERATION

3.9.6 The refueling machine shall be used for movement of fuel assemblies with or without CEAs and shall be OPERABLE with:

- a. A minimum capacity of 3000 pounds, and
- b. An overload cut off limit of less than or equal to 3350 pounds.

The refueling machine auxiliary hoist may be used for the movement of CEAs without fuel bundles and shall be OPERABLE with an overload cut off limit of less than or equal to 1000 pounds.

APPLICABILITY: During movement of CEAs and/or fuel assemblies within the reactor pressure vessel utilizing the refueling machine auxiliary hoist or refueling machine.

ACTION: With the requirements for the refueling machine OPERABILITY not satisfied, suspend all refueling machine operations involving the movement of fuel assemblies with or without CEAs within the reactor pressure vessel. With the requirements for the refueling machine auxiliary hoist not satisfied, suspend all refueling machine auxiliary hoist operations involving the movement of CEAs within the reactor pressure vessel.

SURVEILLANCE REQUIREMENTS

4.9.6 The refueling machine used for movement of fuel assemblies with or without CEAs within the reactor pressure vessel shall be demonstrated OPERABLE within 72 hours prior to the start of such operations by performing a load test of at least 3000 pounds and demonstrating an automatic load cut off when the refueling machine load exceeds 3350 pounds. The refueling machine auxiliary hoist used for movement of CEAs within the reactor pressure vessel shall be demonstrated OPERABLE within 72 hours prior to the start of such operations by demonstrating an automatic load cut off when the auxiliary hoist load exceeds 1000 pounds.

REFUELING OPERATIONS

BASES

3/4.9.6 REFUELING MACHINE

The OPERABILITY requirements for the refueling machine ensure that: (1) the refueling machine will be used for movement of all fuel assemblies including those with a CEA inserted, (2) each machine has sufficient load capacity to lift a fuel assembly including those with a CEA, and (3) the core internals and pressure vessel are protected from excessive lifting force in the event they are inadvertently engaged during lifting operations.

Five finger CEAs are removed from the reactor vessel either along with the associated fuel bundle utilizing the refueling machine or can be removed without the associated fuel bundle utilizing the refueling machine auxiliary hoist. The four finger CEAs are inserted through the upper guide structure with two fingers in each of the two adjacent fuel bundles in the periphery of the core. The four finger CEAs are either removed with the upper guide structure and lift rig or can be removed with separate tooling prior to upper guide structure removal utilizing the auxiliary hoist of the polar crane or the refueling machine auxiliary hoist.

Coupling and uncoupling of the CEAs and the CEDM drive shaft extensions is accomplished using one of the gripper operating tools. The coupling and uncoupling is verified by weighing the drive shaft extensions.

ATTACHMENT C

Existing Technical Specifications, Unit 3

REFUELING OPERATIONS

3/4.9.6 REFUELING MACHINE

LIMITING CONDITION FOR OPERATION

3.9.6 The refueling machine shall be used for movement of CEAs* or fuel assemblies and shall be OPERABLE with:

- a. A minimum capacity of 3000 pounds, and
- b. An overload cut off limit of less than or equal to 3350 pounds.

APPLICABILITY: During movement of CEAs* and/or fuel assemblies within the reactor pressure vessel.

ACTION:

With the requirements for the refueling machine OPERABILITY not satisfied, suspend all refueling machine operations involving the movement of CEAs* and fuel assemblies within the reactor pressure vessel.

SURVEILLANCE REQUIREMENTS

4.9.6 The refueling machine used for movement of CEAs* or fuel assemblies within the reactor pressure vessel shall be demonstrated OPERABLE within 72 hours prior to the start of such operations by performing a load test of at least 3000 pounds and demonstrating an automatic load cut off when the refueling machine load exceeds 3350 pounds.

*Except for movement of four finger CEA's, coupling and uncoupling the CEA extension shafts or verifying the coupling and uncoupling.

REFUELING OPERATIONS

BASES

3/4.9.6 REFUELING MACHINE

The OPERABILITY requirements for the refueling machine ensure that: (1) the refueling machine will be used for movement of all fuel assemblies including those with a CEA inserted, (2) each machine has sufficient load capacity to lift a fuel assembly including those with a CEA, and (3) the core internals and pressure vessel are protected from excessive lifting force in the event they are inadvertently engaged during lifting operations.

With the exception of the four finger CEA's, CEA's are removed from the reactor vessel along with the fuel bundle in which they are inserted utilizing the refueling machine. The four finger CEA's are inserted through the upper guide structure with two fingers in each of the two adjacent fuel bundles in the periphery of the core. The four finger CEA's are either removed with the upper guide structure and lift rig or can be removed with separate tooling prior to upper guide structure removal utilizing the auxiliary hoist of the polar crane.

Coupling and uncoupling of the CEA's and the CEDM drive shaft extensions is accomplished using the gripper operating tool. The coupling and uncoupling is verified by weighing the drive shaft extensions.

ATTACHMENT D

Proposed Technical Specifications, Unit 3

REFUELING OPERATIONS

3/4.9.6 REFUELING MACHINE

LIMITING CONDITION FOR OPERATION

- 3.9.6 The refueling machine shall be used for movement of fuel assemblies with or without CEAs and shall be OPERABLE with:
- a. A minimum capacity of 3000 pounds, and
 - b. An overload cut off limit of less than or equal to 3350 pounds.

The refueling machine auxiliary hoist may be used for the movement of CEAs without fuel bundles and shall be OPERABLE with an overload cut off limit of less than or equal to 1000 pounds.

APPLICABILITY: During movement of CEAs and/or fuel assemblies within the reactor pressure vessel utilizing the refueling machine auxiliary hoist or refueling machine.

ACTION: With the requirements for the refueling machine OPERABILITY not satisfied, suspend all refueling machine operations involving the movement of fuel assemblies with or without CEAs within the reactor pressure vessel. With the requirements for the refueling machine auxiliary hoist not satisfied, suspend all refueling machine auxiliary hoist operations involving the movement of CEAs within the reactor pressure vessel.

SURVEILLANCE REQUIREMENTS

- 4.9.6 The refueling machine used for movement of fuel assemblies with or without CEAs within the reactor pressure vessel shall be demonstrated OPERABLE within 72 hours prior to the start of such operations by performing a load test of at least 3000 pounds and demonstrating an automatic load cut off when the refueling machine load exceeds 3350 pounds. The refueling machine auxiliary hoist used for movement of CEAs within the reactor pressure vessel shall be demonstrated OPERABLE within 72 hours prior to the start of such operations by demonstrating an automatic load cut off when the auxiliary hoist load exceeds 1000 pounds.

REFUELING OPERATIONS

BASES

3/4.9.6 REFUELING MACHINE

The OPERABILITY requirements for the refueling machine ensure that: (1) the refueling machine will be used for movement of all fuel assemblies including those with a CEA inserted, (2) each machine has sufficient load capacity to lift a fuel assembly including those with a CEA, and (3) the core internals and pressure vessel are protected from excessive lifting force in the event they are inadvertently engaged during lifting operations.

Five finger CEAs are removed from the reactor vessel either along with the associated fuel bundle utilizing the refueling machine or can be removed without the associated fuel bundle utilizing the refueling machine auxiliary hoist. The four finger CEAs are inserted through the upper guide structure with two fingers in each of the two adjacent fuel bundles in the periphery of the core. The four finger CEAs are either removed with the upper guide structure and lift rig or can be removed with separate tooling prior to upper guide structure removal utilizing the auxiliary hoist of the polar crane or the refueling machine auxiliary hoist.

Coupling and uncoupling of the CEAs and the CEDM drive shaft extensions is accomplished using one of the gripper operating tools. The coupling and uncoupling is verified by weighing the drive shaft extensions.