

**A****TRANSNUCLEAR****72.48  
APPLICABILITY &  
SCREENING FORM**

SRS Sequence No.: SRS 721029-134, Rev 1

Initiating Doc. No.: NCR F-04.024, Rev 2

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**Brief Description of Change:**

This SRS screens the "Use-as-Is" disposition of TN NCR F-04.024 regarding the use of ER316L weld filler metal for welding of the vent and siphon port cover plates in lieu of ER316 weld filler metal and the lack of physical testing of the as-deposited weld filler metal, as required by TN 24PT1-DSC fabrication specification SCE-01-0112, Section 5.2.1.C "Welding Materials". All material properties for ER316 and ER316L materials used in the evaluations are the same, except the use of the ER316L weld filler metal results in a lower strength filler metal (70 ksi tensile strength for ER316L versus 75 ksi tensile strength for ER316). The disposition provided in the subject NCR documents that the ER316L weld filler metal tensile strength also meets the required strength for welding of the DSC vent and siphon port cover plates. The lack of physical testing of the weld filler metal is acceptable due to the low stresses imposed on the weld filler metal and since the requirements for physical test is imposed by the TN 24PT1-DSC fabrication specification only and is not a requirement of ASME Section III, Subsection NB; material specification SFA-5.9 or FSAR.

Preparer: U. A. Farradj

Qualified Reviewer: I. D. McInnes

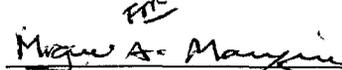
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5/20/04

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Date:

5/20/04

**PART A: SAFETY REVIEW APPLICABILITY****Question #1A**

Does the change involve a change to the terms, conditions or Technical Specifications incorporated in the Certificate of Compliance?

**Conclusion:**
 YES  
 NO

If YES, indicate the COC sections affected (an Amendment to the CoC is required):

If NO, provide justification and list the documents reviewed:

The Technical Specifications and Certificate of Compliance do not specify the weld filler material of the DSC vent and siphon block or its cover plates, nor the weld filler metal to be used or testing requirements for the weld filler metal.

Reviewed C of C 72-1029, Amendment 0 and associated Technical Specifications (TS).

If Yes, the 72.48 screening does not apply. The change cannot be implemented until a COC Amendment (10CFR72.244) incorporating the change has been approved by the NRC.

**Question #1B**

Is the change subject to more specific criteria other than 10CFR72.48?

**Conclusion:**
 YES  
 NO

If YES, indicate the specific regulation that controls the change.

If NO, provide justification.

The deviation in the weld filler metal material is not subject to more specific criteria other than 10CFR72.48. The impact of the weld filler metal strength on the DSC is limited to the DSC

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structural analysis that is within the scope of 10CFR72.48 since the structural analysis is contained within the storage system SAR.

If Yes, 72.48 screening does not apply and the change cannot be implemented under 72.48.

#### PART B: SAFETY REVIEW SCREENING

##### Question #2

Does the change affect the system design as described in the FSAR?  
(For any alteration to a design basis limit for a fission product barrier, the response must be Yes).

Conclusion:

YES  
 NO

If YES, indicate the FSAR sections affected. Give a description of revision required for each affected section:

The FSAR Drawing NUH-05-4010, Rev. 3 (FSAR Section 1.5.2) identifies the vent and siphon block (item 22) and the vent and siphon port covers (item 30) as ASME SA-240, Type 316. This implies that the weld filler metal used will have compatible material properties. The use of ER316L weld filler metal material, as identified in the subject NCR, results in a slightly lower strength weld.

The requirement for physical test of the weld filler metal is not a requirement of ASME Section III, Subsection NB; material specification SFA-5.9 or the FSAR. Therefore, this lack of physical testing is screened out and does not require a safety evaluation.

If NO, provide justification and list the FSAR sections reviewed:

##### Question #3

Does the change affect the method of performing or controlling a design function as described in the FSAR?

Conclusion:

YES  
 NO

If YES, indicate the FSAR sections affected:

If NO, provide justification and list the FSAR sections reviewed:

The deviation identified in the subject NCR does not impact DSC loading and closure operations. The deviation in the weld filler metal material impacts the structural capacity of the associated weld but does not impact the method of performing or controlling the design function of the weld as described in the FSAR.

Documents Reviewed: Advanced NUHOMS® FSAR, Rev. 0 (Docket 72-1029), Chapter 3, 4, 5, 6, 7, 8 and Chapter 1 DSC drawing NUH-05-4010, Revision 3 and issued FCNs.

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#### Question #4

Does the change affect the methods of evaluation described in the FSAR, that demonstrate that the intended design function will be accomplished?

Conclusion:

YES  
 NO

If YES, indicate the FSAR sections affected.

IF NO, provide justification and list the FSAR sections reviewed:

The evaluation of the deviating condition, as described in the NCR, does not require a change in the method of evaluation of DSC welds as currently described in the FSAR. The same ASME code requirements are used in the evaluation.

Documents Reviewed: Advanced NUHOMS® FSAR, Rev. 0 (Docket 72-1029) Chapter 3 to 7 and issued FCNs..

#### Question #5

Does the change involve a test or experiment **NOT** described in the FSAR?

Conclusion:

YES  
 NO

If YES, identify and describe the basis for the yes answer:

IF NO, provide justification and list the FSAR sections reviewed:

The deviation in weld filler metal material does not involve performance of any test or experiment and does not require any change to dry run activities.

Documents Reviewed: Advanced NUHOMS® FSAR, Rev. 0 (Docket 72-1029), Chapters 8 & 9 and issued FCNs.

**If the answer to each of the Questions 2, 3, 4 and 5 above is a NO, implement the change without a Safety Evaluation (SE). If the answer to any ONE of the Questions 2, 3, 4, or 5 is a YES, prepare the applicable SE. Note the SE No. here for reference.**

SE No.: SE-72129-134\*

Licensing Manager Approval:

Signature

*U B Chopra*

Date:

*5/20/04*

U. B. Chopra

\* No revision is required to SE 721029-134 due to the incremental change in the scope of NCR F-04.024, Rev. 2.