

PPPL ENGINEERING CHANGE NOTICE (ECN) ECN # 5038

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| COGNIZANT INDIVIDUAL: Paul Goranson | |
| ECN TITLE: Change to Flex Tubing | |
| ASSOCIATED ECP: None | |
| CC/WP/Job: 9450-1***-1204 | AREA OR PROJECT: NCSX |

LIMITATION OF SCOPE - NOTE: A Work Planning Form is NOT required if the total change to be accomplished (ENG-032):

- Is not large or complex or does not represent a new installation into a usable space
 - Does not have a significant ES&H impact
 - Does not involve tritium or other radioactive contaminated or activated equipment
 - Does not impact multiple projects, systems, or groups
- OR does not change the scope or intent of the original design.

Responsible Line Manager CONCURRENCE: _____
 (Signature indicates that no Work Planning form is required.)

If non-concurrence or associated with a work planning form, enter the WP Number:

| DRAWING(S) AFFECTED NUMBER: | NEW Revision | TITLE |
|--|-------------------------|--|
| SE123-052 | 2 | Vacuum Vessel Heating/Cooling Bronze Gasket Detail |
| SE123-053 | 2 | Vacuum Vessel Heating/Cooling Conductor Detail |
| SE123-054 | 2 | Vacuum Vessel Heating/Cooling StrapDetail |
| | | |
| Se123-172 | 2 | Vacuum Vessel Heating/Cooling Misc. Detail |

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DESCRIPTION OF CHANGE: (State Drawing No., Zone/Group, or List Attachments)

SE123-052 Change gasket material to bronze and thickness to 0.01”.

SE123-053 Change diameter callout of part to 0.46+.02/-.00” and make into one piece instead of two.

Change through hole 0.750 dimension to two place dimension. Change 0.187 dimension to two place dimension.

SE123-054 Change radius of part to 0.23+.01/-.00”. Change centerline dimple offset dimension to 0.93” at radius of 1.00 inches. Change hole diameter to 0.44”.

SE123-172 Change radius of -3 Tube Strap to 0.23+.01/-.00” and base to centerline offset distance to 0.23”.

REASON FOR CHANGE:

To accommodate use of flexible braided hose in place of rigid tubing.

ENGINEERING CHANGE PROPOSAL: N/A

DATE: November 22, 2005

COGNIZANT INDIVIDUAL MAKING THE CHANGE:

RESONSIBLE LINE MANAGER: