



**Fax:** 301-816-5151, NRC Operations Center

**DATE:** August 23, 2013

U.S. Nuclear Regulatory Commission  
NRC Document Control Desk  
Washington, DC 20555-0001

**SUBJECT: NOTIFICATION OF POTENTIAL DEFECT & INTERIM REPORT**  
For component ASME Material supplied by  
Mirion Technologies (Conax Nuclear) Inc., as part of  
Containment Electric Penetration Assemblies (EPA)

Gentlemen/Ladies:

The purpose of this letter is to provide notification and an interim report to the Nuclear Regulatory Commission regarding a potential defect of materials supplied to operating US nuclear power plants by Mirion Technologies (Conax Nuclear) Inc. (MTCN) with Containment Electric Penetration Assemblies (EPA).

This notification is submitted in compliance with the requirements of 10CFR21. Attachment "A" contains the information requested by 10CFR21.21, and is provided to the extent known to date.

Should you have any questions regarding this information or other issues, please contact us at your convenience.

**Mirion Technologies (Conax Nuclear), Inc.**

By: John D. MacDonald

John D. MacDonald, Director of Operations

Cc: Mirion: I. Wilson, CEO; President, Sensing Systems Division  
Mirion: P. E. Couchman, Quality Engineer  
Mirion: R. L. Nikander, Chief Engineer  
Mirion: M. L. Staskiewicz, Sales Manager  
HSB K. W. Golosh, ANI Supervisor  
MSA Inc. J. Highlands, Consultant

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August 23, 2013

**Mirion Technologies (Conax Nuclear) Inc., 10CFR21.21 Notification**  
**Attachment "A"**

I. **Reporting Individual:**

J. D. MacDonald, Director of Operations  
Mirion Technologies (Conax Nuclear) Inc.  
402 Sonwil Drive  
Buffalo, NY 14225-5530  
Tel: 716-681-1973, ext. 203  
Fax: 716-681-1139  
e-mail: [jmacdonald@mirion.com](mailto:jmacdonald@mirion.com)

II. **Identification of Basic Components supplied which have a potential defect:**

- a. The following materials supplied with the Electric Penetration Assemblies:
  - i. Headerplates
  - ii. Mounting weldment rings
  
- b. Flanges:
  - i. Weld-neck flanges for mounting of EPA

III. **Identification of the firm supplying the Basic Component:**

Mirion Technologies (Conax Nuclear) Inc.  
402 Sonwil Drive  
Buffalo, NY 14225-5530

IV. **Nature of Potential Defect:**

Material supplied to MTCN by approved sub-suppliers audited to NCA-3800 by MTCN was considered to be ASME qualified source material for Section II and Section III requirements. During triennial Survey of MTCN by the ASME for renewal of our N Type Certificates of Authorization, it was identified by the ASME Survey team that material supplied by two (2) MTCN approved sub-suppliers should be considered unqualified source material. At that time, MTCN's Quality Program did not include the use of unqualified source material.

V. **Date the potential defect was discovered:**

June 20, 2013



VI. Number and location of basic components in use at, supplied for, being supplied for, manufactured or being manufactured for facilities subject to the regulations in this part:

<b>Basic Components supplied</b>			
<b>Plant Name</b>	<b>Number</b>	<b>Basic Component</b>	<b>Use Status</b>
Oconee	23	Weld-Neck Flanges	Returned, scrapped or in plant stock; To be confirmed.
Ginna	1	EPA (limited materials)	Not installed, To be confirmed
Crystal River	2	EPA (limited materials)	Not installed, To be confirmed
Point Beach	2	EPA (limited materials)	Not installed, To be confirmed
Monticello	1	EPA (limited materials)	Installed, To be confirmed
D. C. Cook	1	EPA (limited materials)	Installed, To be confirmed
Turkey Point	3	EPA (limited materials)	Installed, To be confirmed
<b>Basic Components being manufactured</b>			
Materials on-hand for Basic Components being manufactured are identified and segregated.			

VII. Corrective action taken, being taken, or will be taken, and the name of the organization responsible for the action:

Mirion Technologies (Conax Nuclear) Inc. is the organization responsible for the corrective actions.

Actions taken, being taken, or will be taken to the extent known at this time:

- a. MTCN has reviewed all purchases of all other ASME Code materials and verified all such supply has been from ASME Quality System Certificate (QSC) Holders. The scope of this Notification is confirmed to be limited to the materials identified in Section II above.
- b. Subject materials of Section II above were supplied with Certified Material Test Reports (CMTRs), which were reviewed at receipt to meet the ASME Code requirements for the material.
- c. When materials were received, the chemistry of the material was re-verified by MTCN testing to the ASME Code material requirements.
- d. Upon notification of the potential non-compliance, all coupons for the materials involved in Section II above are undergoing independent testing by an MTCN Approved Supplier test lab for re-verification of the mechanical properties of ASME Code materials.



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- i. Verification Testing - Status To Date: All chemical and mechanical re-verification tests results received to date indicate that there have been no test failures compared to the ASME Code material requirements, **therefore indicating that the materials are not defective.**
- ii. Verification Testing – Remaining Testing: Testing of the coupons for materials used with the Basic Components supplied to the operating plants (listed above) is **expected to be completed within the next 30 days.**
- VIII. Advice related to the potential defect about the basic component that has been, is being or will be given to the purchasers or licensee:

Customers noted above are being notified of the potential defect and requested to supply MTCN with usage status (i.e., whether components are installed, destroyed or in stock).

Further evaluation and material tests will determine what actions are required for basic components shipped, or being manufactured.