

~~PROPRIETARY INFORMATION~~

- Attachment A

insp0046-March 04.doc

**IAEA Activities at the BWXT Down Blending Facility  
March 12, 2004 – March 16, 2004**

Inspectors from the International Atomic Energy Agency (IAEA) will be at the BWX Technologies (BWXT) Down Blending Facility March 12, 2004 – March 16, 2004 to perform the interim inventory verification (IIV) and inspection as well as IAEA equipment maintenance.

**Training Information**

Inspectors Maha Mahmoud, Jaromir Vones and Govindaraj Rengarajan have reviewed the latest version of the Security Awareness training but inspector Yury Pykhtin will have to review the Security Awareness data. There will be three NRC representatives from Washington present during this inspection that are, Brian Horn, Bruce Moran and Vonna Ordaz. All IAEA escort personnel entering the Downblend area by way of the roll-up door on the south end of Downblend are required to be trained to procedure OP-1009440 (IAEA Entrance to Downblend Area) prior to entering the area. No further training will be necessary.

(b)(4)

En 4

~~PROPRIETARY INFORMATION~~

G/20

~~PROPRIETARY INFORMATION~~

**Follow up items from last inspection**

- **State-of-Health Lights:** During routine checking of the state-of-health lights on IAEA equipment since the January inspection, all lights continued to be green indicating IAEA equipment is working properly with the exception of having no lights at the SBFM cabinet found on February 1st. This reset within an hour to a green light and the NRC/IAEA were notified. . See update under "Follow up items since last inspection".
- **New "State-of-Health Lights" chart agreement:** BWXT prepared a revision to the "BWXT Actions to be Taken Upon IAEA Equipment Failures" chart during the November inspection. Gabriel Bernasconi agreed to the changes during the closeout meeting. This chart was forwarded to the NRC/IAEA on November 24<sup>th</sup> for formal written approval. BWXT received the NRC letter for comments on December 18<sup>th</sup> and responded with comments on the 19<sup>th</sup>. This letter was then to be routed through the various U.S. Government agencies and then sent to the IAEA. See update under "Follow up items since last inspection".
- **IAEA Equipment Upgrade:** All activities were completed on schedule during the November installation of the IAEA enrichment monitoring equipment/ (b)(4)  
the SBFM (b)(4)  
The NRC  
requested a work plan for this work. See update under "Follow up items since last inspection".
- **New ACF Administration Building:** With the completion nearing on the new ACF building, BWXT requested from the IAEA either that they be involved in the moving of their storage cabinets in the trailer to the IAEA office area in the ACF building since they have IAEA TID seals applied or the IAEA grant permission for BWXT to move these cabinets. Per Gabriel Bernasconi, at the closeout meeting during the November 2003 inspection, BWXT may move the IAEA cabinets without the IAEA present. Possible March use for IAEA inspections.
- **IAEA Equipment shipped:** The BWXT NMC shipping department prepared the two IAEA cases for shipment to Vienna on December 10, 2003. Along with this shipment was the IAEA contaminated seals. BWXT shipping group has confirmed the packages were received in Vienna. Confirmation was made in January from the IAEA on the receipt of the contaminated seals in Vienna. The inspectors stated during the January inspection, that the IAEA tools had not been received by IAEA technician Govindaraj Rengarajan.
- **Solution Samples to be Pulled:** The inspectors stated they would like to have BWXT pull solution samples for calibration purposes around the March/April inspection period/ (b)(4)  
(b)(4) information will follow on the requested sample size and other details.

Follow up items since last inspection

- **State-of-Health Lights:** During routine checking of the state-of-health lights on IAEA equipment since the February inspection, all lights continued to be green indicating IAEA equipment is working properly with the exception of having a steady yellow light at the SBFM cabinet found on February 16<sup>th</sup> and the blinking yellow light at the SBFM cabinet on February 24<sup>th</sup>. See attachment B for details.
- **New "State-of-Health Lights" chart agreement:** BWXT prepared a revision to the "BWXT Actions to be Taken Upon IAEA Equipment Failures" chart during the November inspection. Gabriel Bernasconi agreed to the changes during the closeout meeting. This chart was forwarded to the NRC/IAEA on November 24<sup>th</sup> for formal written approval. BWXT received the NRC letter for comments on December 18<sup>th</sup> and responded with comments on the 19<sup>th</sup>. This letter was then routed through the various U.S. Government agencies and then sent to the IAEA. UPDATE: BWXT received written IAEA approval of this agreement on February 17<sup>th</sup>.
- **IAEA Equipment Upgrades to UEM and SBFM cabinets:** There will be further equipment upgrades to the UEM and SBFM during this year. (b)(4)

(b)(4)

(b)(4)

work was received on February 17<sup>th</sup>. See attachment C.

The IAEA work plan for this

- **New ACF Administration Building:** With the completion nearing on the new ACF building, BWXT requested from the IAEA either that they be involved in the moving of their storage cabinets in the trailer to the IAEA office area in the ACF building since they have IAEA TID seals applied or the IAEA grant permission for BWXT to move these cabinets. Per Gabriel Bernasconi, at the closeout meeting during the November 2003 inspection, BWXT may move the IAEA cabinets without the IAEA present. Possible March or April use for IAEA inspections.
- **Solution Samples to be Pulled:** The inspectors stated they would like to have BWXT pull solution samples for calibration purposes around the March/April inspection period. (b)(4)

(b)(4)

Information will follow on the

requested sample size and other details.



(b)(4)

Em4

Em4

Pages 4 through 5 redacted for the following reasons:

-----  
(b)(4)

~~PROPRIETARY INFORMATION~~

**ATTACHMENT B**

Page 2 of 2

**State-of-Health Lights:**

**CONTINUED**

**FOLLOW UP February 16, 2004 IAEA SBFM cabinet steady YELLOW light:**

The attempt to replace the light bulb was unsuccessful (24volt-threaded type) so a decision was made to have BWXT electricians replace the socket and light fixture with a BWXT state-of-health fixture. The IAEA inspector Alta Broodryk approved this and the new state-of-health fixture was completed and tested around 05:00 pm on Wednesday 02/18/2004. The IAEA will investigate the possible causes of this alarm and report the results to BWXT. Unfortunately, this may have to wait until the data downloaded during the March inspection is investigated. The IAEA technician Govindaraj Rengarajan will also investigate during the March inspection and UEM upgrade.

---

**IAEA SBFM data collection cabinet BLINKING YELLOW February 25, 2004 FAX to NRC/IAEA**

(b)(4)

NMC personnel checked all state-of-health lights on IAEA equipment in the Downblend area this morning and noted all lights were GREEN.  
If the IAEA has any requests for BWXT to perform associated with the above, feel free to forward those to us.

Please forward this information to the IAEA. Feel free to call me if you have any questions.

Chris Patterson

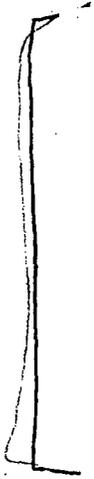
~~PROPRIETARY INFORMATION~~

• Attachment C  
Page 1 of 3

*Out of Scope*

**UZOO  
Proposed maintenance/upgrading activities for 2004  
SGTS -TIE**

**Enrichment monitoring system**



(b)(4), Outside the scope

*EA 4*

*Out of Scope*

**Flow monitoring system**



(b)(4)



*EA 4*

2004/02/26

### UZOO Maintenance/upgrade work plan March 2004

The equipment maintenance/upgrading and testing will be carried out such, as to avoid/minimize interference with normal UZOO operations. The Technical staff and Inspectors will work at times convenient and acceptable to the Operator.

12<sup>th</sup> Mar. Fri. a) Meeting with Operator re changes, if required, to the maintenance plan, need for facility escorts during installation, timing of PIP computer and MMCA units replacement and testing as well as tests of red light triggers to avoid/minimize losses in enrichment data collection, and other topics. 8.5

b) Security checks on new equipment brought to the facility. ✓

c) Preparatory work on PIP computers in the trailer. *- performed*

d) Moving equipment to the facility. *Not performed*

e) Evaluation of log files from UEM and SBFM computers. ✓

f) Set up of monitoring of UEM network. ✓

Assistance required: A security specialist.

13<sup>th</sup> Mar. Sat. a) Facility operating conditions permitting, replacement of PIP computers.

b) Continue monitoring of UEM network.

b) Installation/testing of UEM inspector interface software.

d) Start testing response of PIP computer monitoring software to various induced failures of enrichment monitoring hardware (red light triggers).

14<sup>th</sup> Mar. Sun. a) Continuation of testing of red light triggers.

b) Replacement of MMCA units.

c) Replacement of alarm light bulbs on SBFM cabinet.

d) Investigation of alarm of SBFM, correct if possible.

15<sup>th</sup> Mar. Mon. a) Continuation of investigation of SBFM alarms, correct if possible.

b) Observation of both UEM and SBFM system performance, assessment of UEM inspector interface software.

c) Buffer time for spillover work.

16<sup>th</sup> Mar. Tue. a) Observation of both UEM and SBFM system performance.

b) Decontamination of tools/equipment.

c) Close out meeting.

Attachment C  
page 3 of 3

**List of items to be brought to UZOO**

- 1 PIP-6 replacement computer
- Fluke Network monitoring equipment.
- Inspector interface software in a CD
- Maintenance equipments (Cables & tools etc).
- 1 MMCA Unit
- Cabinet handle with the right sealing hole .
- SBFM replacement bulbs
- Note book PC for diagnostic purposes.
- Memory cards