## ArevaEPRDCPEm Resource

**From:** BRYAN Martin (EXTERNAL AREVA) [Martin.Bryan.ext@areva.com]
**Sent:** Monday, October 25, 2010 1:22 PM
**To:** Tesfaye, Getachew
**Cc:** DELANO Karen (AREVA); ROMINE Judy (AREVA); BENNETT Kathy (AREVA); LENTZ Tony (EXTERNAL AREVA)
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 386, FSAR Ch. 14, Supplement 6

Getachew,

AREVA NP Inc. provided a schedule for technically correct and complete responses to the 24 questions in RAI No. 386 on June 3, 2010. Supplement 1, Supplement 2, Supplement 3, Supplement 4, and Supplement 5 responses to RAI No. 386 were sent on July 15, 2010, August 12, 2010, August 26, 2010, September 9, 2010, and September 22, 2010, respectively, to provide a revised schedule.

To provide additional time to interact with the NRC, a revised schedule is provided in this e-mail for the response to the questions.

The schedule for technically correct and complete responses to the questions has been revised and is provided below:

| Question # | Response Date |
|---|---|
| RAI 386 — 14.02-149 | December 7, 2010 |
| RAI 386 — 14.02-150 | December 7, 2010 |
| RAI 386 — 14.02-151 | December 7, 2010 |
| RAI 386 — 14.02-152 | December 7, 2010 |
| RAI 386 — 14.02-153 | December 7, 2010 |
| RAI 386 — 14.02-154 | December 7, 2010 |
| RAI 386 — 14.02-155 | December 7, 2010 |
| RAI 386 — 14.02-156 | December 7, 2010 |
| RAI 386 — 14.02-157 | December 7, 2010 |
| RAI 386 — 14.02-158 | December 7, 2010 |
| RAI 386 — 14.02-159 | December 7, 2010 |
| RAI 386 — 14.02-160 | December 7, 2010 |
| RAI 386 — 14.03.02-44 | December 7, 2010 |
| RAI 386 — 14.03.02-45 | December 7, 2010 |
| RAI 386 — 14.03.02-46 | December 7, 2010 |
| RAI 386 — 14.03.02-47 | December 7, 2010 |
| RAI 386 — 14.03.02-48 | December 7, 2010 |
| RAI 386 — 14.03.02-49 | December 7, 2010 |
| RAI 386 — 14.03.02-50 | December 7, 2010 |
| RAI 386 — 14.03.02-51 | December 7, 2010 |
| RAI 386 — 14.03.03-37 | December 7, 2010 |
| RAI 386 — 14.03.03-46 | December 7, 2010 |
| RAI 386 — 14.03.08-2 | December 7, 2010 |
| RAI 386 — 14.03.08-3 | December 7, 2010 |

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

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**From:** BRYAN Martin (External RS/NB)
**Sent:** Wednesday, September 22, 2010 12:31 PM
**To:** Tesfaye, Getachew
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); LENTZ Tony (External RS/NB)
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 386, FSAR Ch. 14, Supplement 5

Getachew,

AREVA NP Inc. provided a schedule for technically correct and complete responses to the 24 questions in RAI No. 386 on June 3, 2010. Supplement 1, Supplement 2, Supplement 3, and Supplement 4 responses to RAI No. 386 were sent on July 15, 2010, August 12, 2010, August 26, 2010, and September 9, 2010, respectively, to provide a revised schedule.

To provide additional time to interact with the NRC, a revised schedule is provided in this e-mail for the response to the questions.

The schedule for technically correct and complete responses to the questions has been revised and is provided below:

| Question # | Response Date |
|---|---|
| RAI 386 — 14.02-149 | October 28, 2010 |
| RAI 386 — 14.02-150 | October 28, 2010 |
| RAI 386 — 14.02-151 | October 28, 2010 |
| RAI 386 — 14.02-152 | October 28, 2010 |
| RAI 386 — 14.02-153 | October 28, 2010 |
| RAI 386 — 14.02-154 | October 28, 2010 |
| RAI 386 — 14.02-155 | October 28, 2010 |
| RAI 386 — 14.02-156 | October 28, 2010 |
| RAI 386 — 14.02-157 | October 28, 2010 |
| RAI 386 — 14.02-158 | October 28, 2010 |
| RAI 386 — 14.02-159 | October 28, 2010 |
| RAI 386 — 14.02-160 | October 28, 2010 |
| RAI 386 — 14.03.02-44 | October 28, 2010 |
| RAI 386 — 14.03.02-45 | October 28, 2010 |
| RAI 386 — 14.03.02-46 | October 28, 2010 |
| RAI 386 — 14.03.02-47 | October 28, 2010 |
| RAI 386 — 14.03.02-48 | October 28, 2010 |
| RAI 386 — 14.03.02-49 | October 28, 2010 |
| RAI 386 — 14.03.02-50 | October 28, 2010 |
| RAI 386 — 14.03.02-51 | October 28, 2010 |
| RAI 386 — 14.03.03-37 | October 28, 2010 |
| RAI 386 — 14.03.03-46 | October 28, 2010 |
| RAI 386 — 14.03.08-2 | October 28, 2010 |
| RAI 386 — 14.03.08-3 | October 28, 2010 |

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

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**From:** BRYAN Martin (External RS/NB)
**Sent:** Thursday, September 09, 2010 2:30 PM
**To:** 'Tesfaye, Getachew'
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); LENTZ Tony (External RS/NB)
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 386, FSAR Ch. 14, Supplement 4

Getachew,

AREVA NP Inc. provided a schedule for technically correct and complete responses to the 24 questions in RAI No. 386 on June 3, 2010.

AREVA NP Inc. provided technically correct and complete draft responses to 11 of the 24 questions in "RAI 386 Supplement 1 Response – DRAFT.pdf" on July 8, 2010. A revised schedule was provided in Supplement 1 on July 15, 2010, in Supplement 2 on August 12, 2010, and in Supplement 3 on August 26, 2010. To allow time for interaction between AREVA and the NRC staff, a revised schedule for submittal of final responses is provided in this e-mail.

The schedule for technically correct and complete responses to the questions has been revised and is provided below:

| Question # | Response Date |
|---|---|
| RAI 386 — 14.02-149 | October 28, 2010 |
| RAI 386 — 14.02-150 | October 28, 2010 |
| RAI 386 — 14.02-151 | October 14, 2010 |
| RAI 386 — 14.02-152 | October 14, 2010 |
| RAI 386 — 14.02-153 | October 28, 2010 |
| RAI 386 — 14.02-154 | October 28, 2010 |
| RAI 386 — 14.02-155 | October 28, 2010 |
| RAI 386 — 14.02-156 | October 14, 2010 |
| RAI 386 — 14.02-157 | October 28, 2010 |
| RAI 386 — 14.02-158 | October 14, 2010 |
| RAI 386 — 14.02-159 | October 14, 2010 |
| RAI 386 — 14.02-160 | October 28, 2010 |
| RAI 386 — 14.03.02-44 | September 23, 2010 |
| RAI 386 — 14.03.02-45 | September 23, 2010 |
| RAI 386 — 14.03.02-46 | October 28, 2010 |
| RAI 386 — 14.03.02-47 | October 28, 2010 |
| RAI 386 — 14.03.02-48 | October 28, 2010 |
| RAI 386 — 14.03.02-49 | September 23, 2010 |
| RAI 386 — 14.03.02-50 | September 23, 2010 |

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| RAI 386 — 14.03.02-51 | September 23, 2010 |
| RAI 386 — 14.03.03-37 | September 23, 2010 |
| RAI 386 — 14.03.03-46 | October 28, 2010 |
| RAI 386 — 14.03.08-2 | September 23, 2010 |
| RAI 386 — 14.03.08-3 | September 23, 2010 |

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

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**From:** BRYAN Martin (External RS/NB)
**Sent:** Thursday, August 26, 2010 8:27 PM
**To:** 'Tesfaye, Getachew'
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); LENTZ Tony (External RS/NB)
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 386, FSAR Ch. 14, Supplement 3

Getachew,

AREVA NP Inc. provided a schedule for technically correct and complete responses to the 24 questions in RAI No. 386 on June 3, 2010.

AREVA NP Inc. provided technically correct and complete draft responses to 11 of the 24 questions in "RAI 386 Supplement 1 Response – DRAFT.pdf" on July 8, 2010. A revised schedule was provided in Supplement 1 on July 15, 2010 and in Supplement 2 on August 12, 2010. To allow time for interaction between AREVA and the NRC staff, a revised schedule for submittal of final responses is provided in this e-mail.

The schedule for technically correct and complete responses has been revised and is provided below:

| Question # | Response Date |
|---|---|
| RAI 386 — 14.02-149 | September 9, 2010 |
| RAI 386 — 14.02-150 | September 9, 2010 |
| RAI 386 — 14.02-151 | October 14, 2010 |
| RAI 386 — 14.02-152 | October 14, 2010 |
| RAI 386 — 14.02-153 | September 9, 2010 |
| RAI 386 — 14.02-154 | September 9, 2010 |
| RAI 386 — 14.02-155 | September 9, 2010 |
| RAI 386 — 14.02-156 | October 14, 2010 |
| RAI 386 — 14.02-157 | September 9, 2010 |
| RAI 386 — 14.02-158 | October 14, 2010 |
| RAI 386 — 14.02-159 | October 14, 2010 |
| RAI 386 — 14.02-160 | September 9, 2010 |
| RAI 386 — 14.03.02-44 | September 23, 2010 |

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| RAI 386 — 14.03.02-45 | September 23, 2010 |
| RAI 386 — 14.03.02-46 | September 9, 2010 |
| RAI 386 — 14.03.02-47 | September 9, 2010 |
| RAI 386 — 14.03.02-48 | September 9, 2010 |
| RAI 386 — 14.03.02-49 | September 23, 2010 |
| RAI 386 — 14.03.02-50 | September 23, 2010 |
| RAI 386 — 14.03.02-51 | September 23, 2010 |
| RAI 386 — 14.03.03-37 | September 23, 2010 |
| RAI 386 — 14.03.03-46 | September 9, 2010 |
| RAI 386 — 14.03.08-2 | September 23, 2010 |
| RAI 386 — 14.03.08-3 | September 23, 2010 |

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

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**From:** BRYAN Martin (EXT)
**Sent:** Thursday, August 12, 2010 6:02 PM
**To:** 'Tesfaye, Getachew'
**Cc:** DELANO Karen (RS/NB); ROMINE Judy (RS/NB); BENNETT Kathy (RS/NB); LENTZ Tony F (EXT)
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 386, FSAR Ch. 14, Supplement 2

Getachew,

AREVA NP Inc. provided a schedule for technically correct and complete responses to the 24 questions in RAI No. 386 on June 3, 2010. A revised schedule was provided in Supplement 1 on July 15, 2010.

AREVA NP Inc. provided technically correct and complete DRAFT responses to 7 of the 24 questions in "RAI 386 Supplement 1 Response – DRAFT.pdf" on July 8, 2010. To allow time for interaction between AREVA and the NRC staff, a revised schedule for submittal of final responses for these 7 questions is provided in this e-mail.

The schedule for technically correct and complete responses to the questions has been revised and is provided below:

| Question # | Response Date |
|---|---|
| RAI 386 — 14.02-149 | September 9, 2010 |
| RAI 386 — 14.02-150 | September 9, 2010 |
| RAI 386 — 14.02-151 | August 26, 2010 |
| RAI 386 — 14.02-152 | August 26, 2010 |
| RAI 386 — 14.02-153 | September 9, 2010 |
| RAI 386 — 14.02-154 | September 9, 2010 |
| RAI 386 — 14.02-155 | September 9, 2010 |
| RAI 386 — 14.02-156 | August 26, 2010 |
| RAI 386 — 14.02-157 | September 9, 2010 |

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| RAI 386 — 14.02-158 | August 26, 2010 |
| RAI 386 — 14.02-159 | August 26, 2010 |
| RAI 386 — 14.02-160 | September 9, 2010 |
| RAI 386 — 14.03.02-44 | August 26, 2010 |
| RAI 386 — 14.03.02-45 | August 26, 2010 |
| RAI 386 — 14.03.02-46 | August 26, 2010 |
| RAI 386 — 14.03.02-47 | August 26, 2010 |
| RAI 386 — 14.03.02-48 | August 26, 2010 |
| RAI 386 — 14.03.02-49 | August 26, 2010 |
| RAI 386 — 14.03.02-50 | August 26, 2010 |
| RAI 386 — 14.03.02-51 | August 26, 2010 |
| RAI 386 — 14.03.03-37 | August 26, 2010 |
| RAI 386 — 14.03.03-46 | August 26, 2010 |
| RAI 386 — 14.03.08-2 | August 26, 2010 |
| RAI 386 — 14.03.08-3 | August 26, 2010 |

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

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**From:** BRYAN Martin (EXT)
**Sent:** Thursday, July 15, 2010 1:03 PM
**To:** 'Tesfaye, Getachew'
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); LENTZ Tony F (EXT)
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 386, FSAR Ch. 14, Supplement 1

Getachew,

AREVA NP Inc. provided a schedule for technically correct and complete responses to the 24 questions in RAI No. 386 on June 3, 2010.

AREVA NP Inc. provided technically correct and complete DRAFT responses to 7 of the 24 questions in RAI No. 386 on July 8, 2010. To allow additional time for interaction between AREVA and the NRC staff, a revised schedule for submittal of final responses for these 7 questions is provided in this e-mail (386-14.02-149, 150, 153, 154, 155, 157 and 160).

The schedule for technically correct and complete responses to the questions has been revised and is provided below:

| Question # | Response Date |
|---|---|
| RAI 386 — 14.02-149 | **August 12, 2010** |
| RAI 386 — 14.02-150 | **August 12, 2010** |
| RAI 386 — 14.02-151 | August 26, 2010 |

| | |
|---|---|
| RAI 386 — 14.02-152 | August 26, 2010 |
| RAI 386 — 14.02-153 | **August 12, 2010** |
| RAI 386 — 14.02-154 | **August 12, 2010** |
| RAI 386 — 14.02-155 | **August 12, 2010** |
| RAI 386 — 14.02-156 | August 26, 2010 |
| RAI 386 — 14.02-157 | **August 12, 2010** |
| RAI 386 — 14.02-158 | August 26, 2010 |
| RAI 386 — 14.02-159 | August 26, 2010 |
| RAI 386 — 14.02-160 | **August 12, 2010** |
| RAI 386 — 14.03.02-44 | August 26, 2010 |
| RAI 386 — 14.03.02-45 | August 26, 2010 |
| RAI 386 — 14.03.02-46 | August 26, 2010 |
| RAI 386 — 14.03.02-47 | August 26, 2010 |
| RAI 386 — 14.03.02-48 | August 26, 2010 |
| RAI 386 — 14.03.02-49 | August 26, 2010 |
| RAI 386 — 14.03.02-50 | August 26, 2010 |
| RAI 386 — 14.03.02-51 | August 26, 2010 |
| RAI 386 — 14.03.03-37 | August 26, 2010 |
| RAI 386 — 14.03.03-46 | August 26, 2010 |
| RAI 386 — 14.03.08-2 | August 26, 2010 |
| RAI 386 — 14.03.08-3 | August 26, 2010 |

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

---

**From:** BRYAN Martin (EXT)
**Sent:** Thursday, June 03, 2010 7:02 PM
**To:** 'Tesfaye, Getachew'
**Cc:** DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); LENTZ Tony F (EXT); RYAN Tom (AREVA NP INC)
**Subject:** Response to U.S. EPR Design Certification Application RAI No. 386(4306,4418,4532,4349,2666,4512,4341), FSAR Ch. 14

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 386 Response US EPR DC.pdf" provides a schedule since a technically correct and complete response to the 24 questions is not provided.

The following table indicates the respective pages in the response document, "RAI 386 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

| Question # | Start Page | End Page |
|---|---|---|
| RAI 386 — 14.02-149 | 2 | 2 |
| RAI 386 — 14.02-150 | 3 | 3 |
| RAI 386 — 14.02-151 | 4 | 4 |
| RAI 386 — 14.02-152 | 5 | 5 |
| RAI 386 — 14.02-153 | 6 | 6 |
| RAI 386 — 14.02-154 | 7 | 7 |
| RAI 386 — 14.02-155 | 8 | 8 |
| RAI 386 — 14.02-156 | 9 | 9 |
| RAI 386 — 14.02-157 | 10 | 10 |
| RAI 386 — 14.02-158 | 11 | 11 |
| RAI 386 — 14.02-159 | 12 | 12 |
| RAI 386 — 14.02-160 | 13 | 13 |
| RAI 386 — 14.03.02-44 | 14 | 15 |
| RAI 386 — 14.03.02-45 | 16 | 16 |
| RAI 386 — 14.03.02-46 | 17 | 17 |
| RAI 386 — 14.03.02-47 | 18 | 18 |
| RAI 386 — 14.03.02-48 | 19 | 19 |
| RAI 386 — 14.03.02-49 | 20 | 20 |
| RAI 386 — 14.03.02-50 | 21 | 21 |
| RAI 386 — 14.03.02-51 | 22 | 22 |
| RAI 386 — 14.03.03-37 | 23 | 23 |
| RAI 386 — 14.03.03-46 | 24 | 24 |
| RAI 386 — 14.03.08-2 | 25 | 26 |
| RAI 386 — 14.03.08-3 | 27 | 27 |

A complete answer is not provided for the 24 questions. The schedule for a technically correct and complete response to these questions is provided below.

| Question # | Response Date |
|---|---|
| RAI 386 — 14.02-149 | July 15, 2010 |
| RAI 386 — 14.02-150 | July 15, 2010 |
| RAI 386 — 14.02-151 | August 26, 2010 |
| RAI 386 — 14.02-152 | August 26, 2010 |
| RAI 386 — 14.02-153 | July 15, 2010 |
| RAI 386 — 14.02-154 | July 15, 2010 |
| RAI 386 — 14.02-155 | July 15, 2010 |
| RAI 386 — 14.02-156 | August 26, 2010 |
| RAI 386 — 14.02-157 | July 15, 2010 |
| RAI 386 — 14.02-158 | August 26, 2010 |
| RAI 386 — 14.02-159 | August 26, 2010 |
| RAI 386 — 14.02-160 | July 15, 2010 |
| RAI 386 — 14.03.02-44 | August 26, 2010 |
| RAI 386 — 14.03.02-45 | August 26, 2010 |
| RAI 386 — 14.03.02-46 | August 26, 2010 |
| RAI 386 — 14.03.02-47 | August 26, 2010 |
| RAI 386 — 14.03.02-48 | August 26, 2010 |

| | |
|---|---|
| RAI 386 — 14.03.02-49 | August 26, 2010 |
| RAI 386 — 14.03.02-50 | August 26, 2010 |
| RAI 386 — 14.03.02-51 | August 26, 2010 |
| RAI 386 — 14.03.03-37 | August 26, 2010 |
| RAI 386 — 14.03.03-46 | August 26, 2010 |
| RAI 386 — 14.03.08-2 | August 26, 2010 |
| RAI 386 — 14.03.08-3 | August 26, 2010 |

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

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**From:** Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]
**Sent:** Tuesday, May 04, 2010 1:52 PM
**To:** ZZ-DL-A-USEPR-DL
**Cc:** Keim, Andrea; Rasmussen, Richard; Dehmel, Jean-Claude; Bernal, Sara; Roach, Edward; Jeng, David; Hawkins, Kimberly; Ng, Ching; Dixon-Herrity, Jennifer; Miernicki, Michael; Colaccino, Joseph; ArevaEPRDCPEm Resource
**Subject:** U.S. EPR Design Certification Application RAI No. 386(4306,4418,4532,4349,2666,4512,4341), FSAR Ch. 14

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on April 6, 2010, and discussed with your staff on May 4, 2010. Drat RAI Question 14.03.02-47 was modified as a result of that discussion. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

Thanks,
Getachew Tesfaye
Sr. Project Manager
NRO/DNRL/NARP
(301) 415-3361

**Hearing Identifier:** AREVA_EPR_DC_RAIs
**Email Number:** 2173

**Mail Envelope Properties** (BC417D9255991046A37DD56CF597DB710805CD79)

**Subject:** Response to U.S. EPR Design Certification Application RAI No. 386, FSAR Ch. 14, Supplement 6
**Sent Date:** 10/25/2010 1:22:09 PM
**Received Date:** 10/25/2010 1:22:19 PM
**From:** BRYAN Martin (EXTERNAL AREVA)

**Created By:** Martin.Bryan.ext@areva.com

**Recipients:**
"DELANO Karen (AREVA)" <Karen.Delano@areva.com>
Tracking Status: None
"ROMINE Judy (AREVA)" <Judy.Romine@areva.com>
Tracking Status: None
"BENNETT Kathy (AREVA)" <Kathy.Bennett@areva.com>
Tracking Status: None
"LENTZ Tony (EXTERNAL AREVA)" <Tony.Lentz.ext@areva.com>
Tracking Status: None
"Tesfaye, Getachew" <Getachew.Tesfaye@nrc.gov>
Tracking Status: None

**Post Office:** AUSLYNCMX02.adom.ad.corp

| **Files** | **Size** | **Date & Time** |
|---|---|---|
| MESSAGE | 18135 | 10/25/2010 1:22:19 PM |

**Options**
**Priority:** Standard
**Return Notification:** No
**Reply Requested:** No
**Sensitivity:** Normal
**Expiration Date:**
**Recipients Received:**