

January 27, 2012

MEMORANDUM TO: Mark A. Satorius, Director
Office of Federal and State Materials
and Environmental Management Programs

FROM: Brian W. Sheron, Director **/RA/**
Office of Nuclear Regulatory Research

SUBJECT: RESPONSE TO USER NEED REQUEST FOR DEVELOPING
HUMAN RELIABILITY ANALYSIS-INFORMED MATERIALS FOR
UNDERSTANDING AND ADDRESSING POTENTIAL HUMAN
ERRORS FOR MEDICAL APPLICATIONS OF BYPRODUCT
MATERIALS (FSME-2011-002)

The Office of Nuclear Regulatory Research (RES) is pleased to accept your user need request, dated October 6, 2011, which is available in the Agencywide Documents Access and Management System (ADAMS), under Accession No. ML112570030, and which we have designated as FSME-2011-002 for tracking purposes. Specifically, the request asked RES to (1) develop a report on understanding human error in radiation therapy, (2) publish human reliability analysis (HRA)-informed training materials, and (3) demonstrate how to use the HRA-informed job aid through illustrative examples.

The Human Factors and Reliability Branch (HFRB), Division of Risk Analysis (DRA), RES has initiated a project and two contracts in order to respond to your request and already has initiated product development. However, because of competing budgetary priorities (e.g., the salary and benefits shortfall), FSME has significantly reduced the FY 2012 contract budget and has projected the complete elimination of the FY 2013 contract budget for this project. Consequently, RES will be unable to deliver the second and third products identified in the previous paragraph. Also, the schedule for delivery of the first requested product will be delayed. The schedule below has been coordinated with FSME management and takes these budgeting constraints into account.

CONTACTS: Susan Cooper, RES/DRA
301-251-7604

Julie Marble, RES/DRA
301-251-7610

Given the assumptions above, the deliverable schedule is estimated to be:

- (1) NUREG on understanding human error in radiation therapy
Draft for FSME review: September 2012
Report ready for publication: March 2013
- (2) Publication of HRA-informed training materials
Draft for FSME review: N/A
Report ready for publication: N/A
- (3) Documentation of illustrative examples on how to use HRA-informed job aid
Draft for FSME review: N/A
Report ready for publication: N/A

In order to provide this product, it will be necessary for our respective staffs to interact regularly to ensure that this work is timely and in accordance with FSME needs with respect to understanding and addressing potential human errors in medical applications of byproduct materials.

If you have any questions, please feel free to contact either of the RES project leads:

Susan E. Cooper, RES/DRA/HFRB
301-251-7604
Susan.Cooper@nrc.gov

Julie Marble, RES/DRA/HFRB
301-251-7610
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DATE	1/19/12	1/20/12	1/20/12	1/20/12	1/27/12

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