



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
WASHINGTON, D.C. 20555-0001

April 22, 2009

LICENSEE: Exelon Generation Company, LLC (Exelon)

FACILITY: Clinton Nuclear Power Station, Unit No. 1 (Clinton)

SUBJECT: SUMMARY OF THE MARCH 31, 2009, CATEGORY 1 PRE-APPLICATION
MEETING WITH EXELON TO DISCUSS A PROPOSED LICENSE AMENDMENT
REQUEST REGARDING COBALT PRODUCTION

On March 31, 2009, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML090760150), a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Exelon Generation Company, LLC (Exelon) at the NRC headquarters complex, 6003 Executive Boulevard, Rockville, Maryland. The purpose of the pre-application meeting was to discuss a planned license amendment request involving the production of Cobalt-60, a radioactive isotope with uses in the medical and food irradiation applications, at the Clinton Nuclear Power Station. A list of attendees is enclosed. Exelon's presentation handouts can be found at ADAMS Accession No. ML090890494.

The presentation to the NRC staff included a description of the proposed Cobalt-60 isotope generation process involving a partnership between Exelon and General Electric-Hitachi (GE-Hitachi). The process flow includes installing a limited number of Cobalt-59 target rods into fuel bundles during fuel fabrication, irradiating them in the reactor, removal of the cobalt producing rods from the associated fuel bundles in the Clinton spent fuel pool, transfer of the cobalt rods to a shipping cask, and shipment of the rods to a GE-Hitachi facility in California for hot cell handling.

The NRC staff gave Exelon feedback on the submittal. The staff expressed concerns with the timing of the submittal, including the supporting analyses, as well as the use of the Lead Test Assembly framework. Many of the staff's concerns were focused on the fact that the pending application would not include the results of reload and safety analyses that the licensee plans to complete in May 2009. The staff informed Exelon that this would pose challenges for the staff's acceptance and technical reviews. The staff discussed options for auditing these analyses once complete and encouraged Exelon to keep the staff informed of their progress and any delays encountered. Based on these concerns, the staff encouraged Exelon to develop a contingency plan in case the NRC staff could not reach a safety conclusion in sufficient time to support the upcoming Clinton outage. In addition, questions were raised regarding the applicability of the certificate of conformance for the proposed shipping cask, as well as the review of transportation security considerations. No regulatory decisions were made at the meeting by the NRC.

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Several members of the public were present for the meeting, both in person and by telecon. No attendees chose to complete any Public Meeting Feedback Forms (NRC Form 659), which were available at the meeting.

Please direct any inquiries to Peter J. Bamford at 301-415-2833, or peter.bamford@nrc.gov.

A handwritten signature in black ink that reads "Peter Bamford". The signature is fluid and cursive, with the first name "Peter" and last name "Bamford" clearly distinguishable.

Peter J. Bamford, Project Manager
Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-461

Enclosure:
List of Attendees

cc: Distribution via Listserv

LIST OF ATTENDEES

CATEGORY 1 PRE-APPLICATION MEETING

WITH EXELON GENERATION COMPANY, LLC

REGARDING CLINTON CO-60 PRODUCTION

March 31, 2009

| <u>Name</u> | <u>Organization</u> | <u>Name</u> | <u>Organization</u> |
|--------------------------|---------------------|--------------------------|--|
| Jeff Hansen | Exelon | Paul Clifford | NRC |
| Timothy Byam | Exelon | Robert Taylor | NRC |
| Krista Lopykinski | Exelon | Patrick Castleman | NRC |
| Donald Ferraro | Exelon | Leta Brown | NRC |
| Joe Watson | Exelon | Allen Howe | NRC |
| Christopher Brown | Exelon | Roger Pedersen | NRC |
| Michael Reitmeyer | Exelon | Jason Draper (telecon) | NRC |
| Anthony Giancatarino | Exelon | Steve Orth (telecon) | NRC |
| William Gassmann | Exelon | Brian Kemker (telecon) | NRC |
| Marshall Murphy | Exelon | Mark Ring (telecon) | NRC |
| James Peterson (telecon) | Exelon | James Lynch (telecon) | NRC |
| Bruce Paulson (telecon) | Exelon | Bill Russell | GE-Hitachi |
| Peter Bamford | NRC | Patricia Campbell | GE-Hitachi |
| Aleem Boatright | NRC | Jim Harrison | GE-Hitachi |
| Stephen Sands | NRC | Steve Collins (telecon) | State of Illinois |
| Mark Blumberg | NRC | Charles Vinson (telecon) | State of Illinois |
| Donna-Beth Howe | NRC | Daren Perrero (telecon) | State of Illinois |
| Susan Uttal | NRC | Cecil Settles (telecon) | State of Illinois |
| Mary Adams | NRC | Frank Niziolek (telecon) | State of Illinois |
| Scott Burnell | NRC | Donald Notigan | PSE&G |
| Russell Gibbs | NRC | Vincent Zabielski | PSE&G |
| Christopher Staab | NRC | Robert Hoffman (telecon) | PSE&G (contractor) |
| Michael Zeitler | NRC | Steven Dolly | Platts |
| Anthony Mendiola | NRC | Richard Martin | American Society for Radiation Oncology |

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/RA/

Peter J. Bamford, Project Manager
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List of Attendees

Distribution

RidsNrrPMSSands Resource
RidsNrrDorl Resource
RidsNrrLATHarris Resource
SCampbell, OEDO RIII
RidsAcraAcnw_MailCtr Resource
DHowe, FSME
SBurnell, OPA
MZeitler, OIG
RTaylor, NRR
RPedersen, NRR
BKemker, RIII
AHowe, NRR

RidsNrrDorlLpl3-2 Resource
RidsNrrPMPBamford Resource
RidsOgcRp Resource
RidsRgn3MailCenter Resource
RidsNrrDorlLpl3-2 Resource
SUttal, OGC
RGibbs, NRR
AMendiola, NRR
PCastleman, OCM
JDraper, RIII
MRing, RIII

LPL3-2 R/F
PUBLIC
CTucci, NRR
ABoatright, NRR
MBlumberg, NRR
MAdams, NMSS
CStaab, NMSS
PClifford, NRR
LBrown, NRR
SOrth, RIII
JLynch, RIII

Package Accession No. ML090890540

Meeting Summary Accession No. ML091060016

Slides Accession No. ML090890494

| OFFICE | LPL1-2/PM | LPL3-2/LA | LPL3-2/BC |
|--------|-----------|-----------|------------------------|
| NAME | PBamford | THarris | CGratton for RGibbs |
| DATE | 04/20/09 | 04/21/09 | 04/22/09 |

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