Chronology of NRC Staff Environmental Review Correspondence Related to Exelon Generation Company, LLC's Application for License Renewal of Dresden Nuclear Power Station, Units 2 and 3

Chronology of NRC Staff Environmental Review Correspondence Related to Exelon Generation, LLC's Application for License Renewal of Dresden Nuclear Power Station, Units 2 and 3

This appendix contains a chronological listing of correspondence between the Nuclear Regulatory Commission (NRC) and the Exelon Generation Company, LLC (Exelon) and other correspondence related to the NRC staff's environmental review, under 10 CFR Part 51, of Exelon's application for renewal of the Dresden Nuclear Power Station, Units 2 and 3, operating licenses. All documents, with the exception of those containing proprietary information, have been placed in the Commission's Public Document Room, at One White Flint North, 11555 Rockville Pike (first floor), Rockville, MD, and are available electronically from the Public Electronic Reading Room found on the Internet at the following web address: http://www.nrc.gov/NRC/ADAMS/index.html. From this site, the public can gain access to the NRC's Agencywide Document Access and Management Systems (ADAMS), which provides text and image files of NRC's public documents in the Publicly Available Records (PARS) component of ADAMS. The ADAMS accession numbers for each document are included below.

| January 3, 2003 | Letter from Mr. Jeffrey A. Benjamin, Exelon, to NRC submitting the application for the renewal of the operating license for Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML030090203) |
|------------------|--|
| January 6, 2003 | Comment letter from Dick Kopczick, Mayor, City of Morris, Illinois, to NRC regarding the license renewal of Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML030210119) |
| January 10, 2003 | NRC Press Release No. 03-007, "NRC Announces The Availability of License Renewal Application for Dresden, Quad Cities Nuclear Power Plants" (Accession No. ML030100360) |
| January 24, 2003 | Letter from NRC staff to Mr. John L. Skolds, Exelon, regarding the receipt and availability of the Dresden and Quad Cities license renewal applications (Accession No. ML030240603) |

February 24, 2003 Letter from NRC staff to Ms. Jolene Franciskovich, Coal City Public Library District, Coal City, IL, concerning the maintenance of reference material for public access related to the Dresden Nuclear Power Station, Units 2 and 3 license renewal environmental review (Accession No. ML030630385)

February 24, 2003 NRC staff letter to Ms. Deborah Steffes, Morris Area Public Library, Morris, IL, regarding the maintenance of reference material for public access related to the Dresden Nuclear Power Station, Units 2 and 3 license renewal environmental review (Accession No. ML030630416)

February 26, 2003 Letter from NRC staff to Mr. John L. Skolds, Exelon Generation Company, LLC, forwarding determination of acceptability and sufficiency of docketing, proposed review schedule, and opportunity for a hearing regarding an application for license renewal of Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML030570654)

March 6, 2003 Letter from NRC staff to Mr. John L. Skolds, Exelon Generation Company, LLC, Notice of Intent to prepare an environmental impact statement and conduct scoping process for license renewal of Dresden Nuclear Station, Units 2 and 3 (Accession No. ML030660306)

March 11, 2003 NRC staff letter to the Honorable Kenneth Meshigaud, Chairperson, Hannahville Indian Community, inviting participation in the environmental review scoping process (Accession No. ML030710302)

March 11, 2003 Letter from NRC staff to Mr. Richard Nelson, United States Fish and Wildlife Service, requesting information relevant to the NRC environmental review (Accession No. ML030710635)

March 11, 2003 NRC staff letter to the Honorable Juan Garcan Jr., Chairperson, Kickapoo Traditional Tribe of Texas, inviting participation in the environmental review scoping process (Accession No. ML030710348)

March 12, 2003 NRC staff letter to the Honorable Harold Frank, Chairperson, Forest County Potawatomi Community, Wisconsin, inviting participation in the environmental review scoping process (Accession No. ML030730705)

| March 12, 2003 | NRC staff letter to the Honorable Gil Holliday, Chairperson, Huron Potawatomi, Inc., Michigan, inviting participation in the environmental review scoping process (Accession No. ML030730061) |
|----------------|---|
| March 12, 2003 | NRC staff letter to the Honorable David K. Sprague, Chairperson, Match-E-Be-Nash-She-Wish Band of Potawatomi Indians of Michigan, inviting participation in the environmental review scoping process (Accession No. ML030730768) |
| March 12, 2003 | NRC staff letter to the Honorable John Miller, Chairperson, Match-E-Be- Nash-She-Wish Band of Potawatomi Indians of Michigan, inviting participation in the environmental review scoping process (Accession No. ML030730773) |
| March 12, 2003 | NRC staff letter to the Honorable John A. Barrett, Chairperson, Citizen Potawatomi Nation, Oklahoma, inviting participation in the environmental review scoping process (Accession No. ML030730343) |
| March 12, 2003 | NRC staff letter to the Honorable Zachariah Pahmahmie, Chairperson, Prairie Band of Potawatomi Nation, Kansas, inviting participation in the environmental review scoping process (Accession No. ML030720625) |
| March 12, 2003 | NRC staff letter to the Honorable Lisa Waukau, Chairperson, Menominee Indian Tribe of Wisconsin, inviting participation in the environmental review scoping process (Accession No. ML030730444) |
| March 12, 2003 | NRC staff letter to the Honorable Danny Kaskaske, Chairperson, Kickapoo Tribe of Oklahoma, inviting participation in the environmental review scoping process (Accession No. ML030730249) |
| March 12, 2003 | NRC staff letter to the Honorable Steve Cadue, Chairperson, Kickapoo Tribe of Indians of the Kickapoo Reservation in Kansas, inviting participation in the environmental review scoping process (Accession No. ML030730381) |
| March 12, 2003 | NRC staff letter to the Honorable John Blackhawk, Chairperson, Winnebago Tribe of Nebraska, inviting participation in the environmental review scoping process (Accession No. ML030730744) |
| | |

| Appendix C | |
|----------------|---|
| March 12, 2003 | NRC staff letter to the Honorable Troy Swallow, President, Ho-Chunk Nation of Wisconsin, inviting participation in the environmental review scoping process (Accession No. ML030720621) |
| March 21, 2003 | Notice of public meeting for April 10, 2003, public meetings in Morris, IL to discuss environmental scoping process for the Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML030790593) |
| April 17, 2003 | Letter from NRC staff to Mr. John L. Skolds, Exelon Generation Company, LLC, Request for Additional Information - environmental review of license renewal applications for Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML031070572) |
| May 1, 2003 | E-mail to <u>DresdenEIS@nrc.gov</u> from Fred Bevington requesting information regarding the environmental review scoping process meeting (Accession No. ML031400095) |
| May 2, 2003 | Letter from NRC staff to Mr. John L. Skolds, Exelon Generation Company, LLC, Revised Request for Additional Information - environmental review of license renewal applications for Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML031220535) |
| May 8, 2003 | Letter from Mr. Stephen K. Davis, Illinois Department of Natural Resources, providing comments for the environmental scoping process (Accession No. ML031420027) |
| May 14, 2003 | E-mail from Mr. William D. Maher, Exelon Generation Company, LLC, providing information requested regarding land use classifications (Accession No. ML031970776) |
| May 21, 2003 | Letter from Mr. David N. Given, United States Department of the Interior, National Park Service, providing comments for the environmental scoping process (Accession No. ML031600183) |
| May 28, 2003 | Letter from Mr. Patrick R. Simpson, Exelon Generation Company, LLC, responding to NRC Request for Additional Information dated May 2, 2003, related to the environmental review of license renewal applications of Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML031540677) |

| May 30, 2003 | Letter from NRC staff to Mr. John L. Skolds, Exelon Generation Company, LLC, Request for Additional Information related to the staff's review of the license renewal environmental report for the Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML031530067) |
|---------------|---|
| June 12, 2003 | Summary of public meetings held on April 10, 2003, in Morris, IL to discuss environmental scoping process for the Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML031640319) |
| June 19, 2003 | E-mail from Mr. William D. Maher, Exelon Generation Company, LLC, providing revised pages to the environmental report, concerning the scope of transmission lines reviewed for shock (Accession No. ML032030221) |
| June 24, 2003 | Letter to the NRC staff from Mr. John Skermont and Mr. Robert Schwartz, providing statements in support of license renewal from union members (ML031820438) |
| July 1, 2003 | NRC staff letter to Mr. Maynard Crossland, Director, Illinois Historic Preservation Agency, providing information regarding the environmental review being conducted for the Dresden license renewal application and requesting comment (ML031820776) |
| July 3, 2003 | NRC staff letter to Mr. John Skermont, International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers and Helpers responding to the June 24, 2003, letter (ML031890768) |
| July 8, 2003 | E-mail from Mr. William D. Maher, Exelon Generation Company, LLC, forwarding environmental data requested by NRC and Exelon from the Illinois Department of Natural Resources (Accession No. ML032030211) |
| July 16, 2003 | E-mail from Mr. Donald E. Vancover, Exelon Generation Company, LLC, providing draft Severe Accident Mitigation Alternatives Request for Additional Information responses (Accession No. ML032030227) |
| July 21, 2003 | Letter from NRC staff to Mr. Jeffery A. Benjamin, Exelon Generation Company, LLC, providing a copy of the Scoping Summary Report associated with the license renewal environmental review (Accession No. ML032030608) |

| | July 23, 2003 | Letter from Mr. Patrick R. Simpson, Exelon Generation Company, LLC, responding to the NRC Request for Additional Information dated May 30, 2003, related to the environmental review of license renewal applications of Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML032060390) |
|------|--------------------|--|
| | August 11, 2003 | Letter to Mr. Richard Nelson, United States Fish and Wildlife Service, requesting comments regarding the expanded scope of the Dresden Nuclear Power Station, Units 2 and 3 environmental scoping process (Accession No. ML032250248) |
| | September 15, 2003 | Letter from Mr. Richard Nelson, United States Fish and Wildlife Service, providing a response to the March 11 and August 11, 2003, NRC staff letters requesting information on threatened or endangered species in the vicinity of the Dresden site (Accession No. ML032730720) |
| | September 18, 2003 | E-mail from Mr. William D. Maher, Exelon Generation Company, LLC regarding procedure change to address State Preservation Historic Officer Issues (Accession No. ML033080100) |
| | October 27, 2003 | Email from Mr. William Maher, Exelon Generation Company, LLC, providing confirmation of completion of an Exelon procedure modification regarding the identification of potential historic or archaeological sites (Accession No. ML033090462) |
| | December 2, 2003 | NRC staff letter to Exelon requesting comments on the Draft SEIS (Accession No. ML033361070) |
| | December 2, 2003 | NRC staff letter to U.S. Environmental Protection Agency regarding the filing of the Draft SEIS (Accession No. ML033361096) |
| | December 22, 2003 | NRC Staff letter for the forthcoming meeting to discuss the draft supplemental environmental impact statement (DSEIS) for license renewal at Dresden Nuclear Power Station, Units 2 and 3 (Accession No. ML033570303) |
| | January 13, 2004 | NRC staff letter to the Illinois Historic Preservation Agency requesting comments on the Draft SEIS and the staff preliminary conclusions regarding historic properties (Accession No. ML040150324) |

| January 16, 2004 | Letter to the NRC staff from Mr. Alfred Bourdelais, County Administrator of Grundy County, providing comments related to the NRC staff environmental review for the proposed Dresden license renewal (Accession No. ML040330851) |
|-------------------|--|
| February 4, 2004 | Letter to the NRC staff from the Illinois Historic Preservation Agency providing comments on the Draft SEIS under the provisions of Section 106 of the National Historic Preservation Act, in response to the NRC staff letter dated January 13, 2004 (Accession No. ML040750430) |
| February 4, 2004 | Letter to President Bush from Mrs. Cynthia Sauer regarding issues raised in public meeting (Accession No. ML040900300) |
| February 12, 2004 | NRC staff letter to U.S. Fish and Wildlife Service requesting review and concurrence in the staff's Biological Assessment (Accession No. ML040440151) |
| February 20, 2004 | Letter from Exelon to the NRC staff providing comments on the Draft SEIS (Accession No. ML040650364) |
| February 20, 2004 | Letter from U.S. Department of the Interior, Office of Environmental and Policy Compliance, providing comments on the Draft SEIS (Accession No. ML040620207) |
| February 24, 2004 | Letter from the Environmental Law and Policy Center providing comments on the Draft SEIS (Accession No. ML040580314) |
| February 24, 2004 | Letter from the U.S. Environmental Protection Agency, Region 5, to the NRC staff providing comments on Draft SEIS (Accession No. ML040650365) |
| March 11, 2004 | Letter from Mr. Richard Nelson, United States Department of the Interior, Fish and Wildlife Service, providing comments for the environmental scoping process (Accession No. ML040820470) |
| March 18, 2004 | Meeting summary for the public meetings held in Morris, Illinois on January 14, 2004, for the purpose of receiving comments on the Draft Supplemental Environmental Impact Statement (Accession No. ML040830286) |

| | March 18, 2004 April 1, 2004 | NRC staff letter to Mr. John Skolds, Exelon, informing Exelon of NRC environmental project manager assignments for QCNPS and DNPS license renewal reviews (Accession No. ML040830239) NRC staff letter to Mrs. Cynthia Sauer regarding issues raised in public meeting (Accession No. ML040930237) |
|-----------|---------------------------------|--|
| | April 18, 2004 | Letter to the NRC staff from Dr. Joseph Sauer regarding issues raised in public meeting (Accession No. ML041130477) |
| | April 19, 2004 | Letter to the NRC staff from Mrs. Cynthia Sauer regarding issues raised in public meeting (Accession No. ML041130477) |
| | April 16, 2004 | NRC staff letter to Mrs. Cynthia Sauer regarding issues raised in public meeting (Accession No. ML040990334) |
| | May 20, 2004 | Letter to the NRC staff from Dr. Joseph Sauer regarding issues raised in public meeting (Accession No. ML041490037) |
| | May 21,2004 | Letter to the NRC staff from Mrs. Cynthia Sauer regarding issues raised in public meeting (Accession No. ML041470167) |
| | June 9, 2004 | NRC staff letter to Dr. and Mrs. Joseph Sauer regarding issues raised in public meeting (Accession No. ML041560573) |

Appendix D

Organizations Contacted

Appendix D

Organizations Contacted

During the course of the staff's independent review of environmental impacts from operations during the renewal term, the following Federal, State, regional, and local agencies were contacted:

City of Morris, IL

Grundy County Economic Development Council, Morris, IL

Grundy County Planning and Zoning, Morris, IL

Grundy County Tax Assessor, Morris, IL

Illinois and Michigan Canal National Heritage Corridor Commission

Illinois Environmental Protection Agency

Illinois Historic Preservation Agency

Illinois Department of Natural Resources

Hannahville Indian Community

Kickapoo Tribe

Kickapoo Tribe of Oklahoma

Kickapoo Tribe of Indians of the Kickapoo Reservation in Kansas

Kickapoo Traditional Tribe of Texas

Menominee Tribe

Menominee Indian Tribe of Wisconsin

National Park Service, U.S. Department of the Interior

Potawatomi Tribe

Forest County Potawatomi Community, WI

Huron Potawatomi, Inc., Michigan

Match-E-Be-Nash-She-Wish Band, Potawatomi Indians of Michigan

Potawatomi Tribe, Oklahoma

Prairie Band, Potawatomi Nation, Kansas

State Historical Society of Iowa

The Salvation Army, Will County, Joliet, IL

Appendix D

The United Way, Grundy County, Morris, IL

U.S. Fish and Wildlife Service

U.S. Forest Service, Midewin National Tall Grass Prairie

Will County Center for Economic Development, Joliet, IL

Will County Executive Officer, Joliet, IL

Will County Planning Division, Joliet, IL

Winnebago Tribe

Winnebago Tribe of Nebraska

Ho-Chunk Nation of Wisconsin

Exelon Generation Company, LLC's Compliance Status and Consultation Correspondence

Exelon Generation Company, LLC's Compliance Status and Consultation Correspondence

Correspondence issued and received during the evaluation process of the application for renewal of the operating license for Dresden Nuclear Power Station, Units 2 and 3 (Dresden) is identified in Table E-1. Copies of the correspondence are included at the end of this appendix.

The licenses, permits, consultations, and other approvals obtained from Federal, State, regional, and local authorities for Dresden are listed in Table E-2.

| Source | Recipient | Date of Letter |
|--|---|--------------------|
| U.S. Nuclear Regulatory Commission (P. T. Kuo) | U.S. Fish and Wildlife Service (R. C. Nelson) | March 11, 2003 |
| Illinois Department of Natural Resources (S. K. Davis) | U.S. Nuclear Regulatory Commission | May 8, 2003 |
| National Park Service (D. N. Given) | U.S. Nuclear Regulatory Commission | May 21, 2003 |
| U.S. Nuclear Regulatory Commission (P. T. Kuo) | Illinois Historic Preservation Agency (M. Crossland) | July 1, 2003 |
| U.S. Nuclear Regulatory Commission (P. T. Kuo) | U.S. Fish and Wildlife Service (R. Nelson) | August 11, 2003 |
| U.S. Fish and Wildlife Service (R. C. Nelson) | U.S. Nuclear Regulatory Commission (L.L. Wheeler) | September 15, 2003 |
| U.S. Nuclear Regulatory Commission (P. T. Kuo) | Illinois Historic Preservation Agency (M. Crossland) | January 13, 2004 |
| U.S. Nuclear Regulatory Commission (L. L. Wheeler) | U.S. Fish and Wildlife Service (R. Nelson) | February 12, 2004 |
| U.S. Department of the Interior (N. Cnezik) | U.S. Nuclear Regulatory Commission) (M. Lesar) | February 20, 2004 |
| U.S. Environmental Protection Agency (K. A. Westlake) | U.S. Nuclear Regulatory Commission | February 24, 2004 |
| Illinois Historic Preservation Agency (A. E. Haaker) | U.S. Nuclear Regulatory Commission (P. T. Kuo) | February 24, 2004 |
| U.S. Fish and Wildlife Service (R.C. Nelson) | U.S. Nuclear Regulatory Commission (P. T. Kuo) | March 11, 2004 |

Table E-1. Consultation Correspondence

| Agency | Authority | Description | Number | Issue Date | Expiration Date | Remarks |
|--|--|---|----------------------|----------------------|-----------------------------------|---|
| NRC | | | | | | |
| 10 CFR Part 50 | Operating license, Dresden Unit 2 | DPR -19 | December 22, 1969 | December 22, 2009 | Authorizes operation of Unit 2 | |
| NRC | 10 CFR Part 50 | Operating license, Dresden Unit 3 | DPR - 25 | January 12, 1971 | January 12, 2011 | Authorizes operation of Unit 3 |
| FWS | Section 7 of the Endangered Species Act (16 USC 1536) | Consultation | NA | | NA | Requires a Federal agency to consult with FWS regarding whether a proposed action will affect endangered or threatened species |
| Ilinois Historic Preservation Agency | National Historic Preservation Act, Section 106 | Consultation | NA | | NA | The National Historic Preservation Act requires Federal agencies to take into account the effect of any undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register of Historic Places. |
| IEPA | Illinois Environmental Protection Act (Title 35 IAC, Subtitle C, Ch.1) | National Pollution Discharge Elimination System Permit | IL0002224 | October 6, 2000 | October 31, 2005 | Permit for discharge of wastewater and once-through cooling water to the Mississippi. Section 1.E.15 of the permit states that the permit constitutes certification of compliance with §401 of the Federal Water Pollution Control Act (Clean Water Act). |

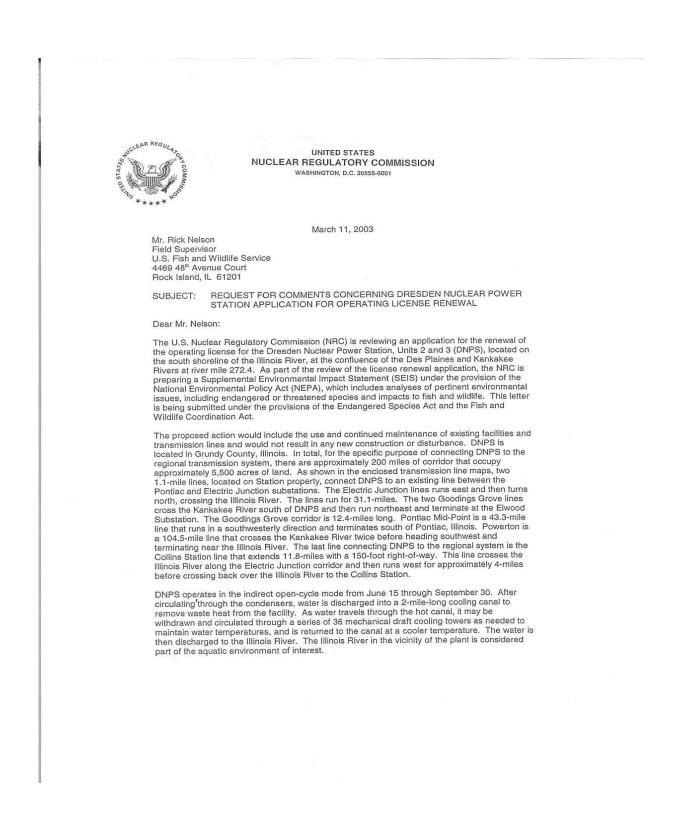
Table E-2. Federal, State, Local, and Regional Licenses, Permits, Consultations, and Other

Table E-2 (Contd)

| Areney | | Description | Number | Jacus Data | Expiration Data | Domorko |
|--------|---|---|--|----------------------|-------------------|--|
| Agency | Authority | Description | Number | Issue Date | Expiration Date | Remarks |
| IEPA | Rivers, Lakes, and Streams Act (615 ILCS) | Class 1 Dam Permit | DS 2000233 | December 19, 2000 | December 19, 2002 | The permit authorizes operation and maintenance of the cooling pond and appurtenances. |
| IEPA | IRS Ch. 111-1/2 Sec. 1039 | Federally-enforceable Air Operating Permit | 063806AAC | April 19, 2001 | April 19, 2006 | The permit authorizes emissions from diesel emergency generators, boilers, and miscellaneous emissions units and activities. |
| IEPA | IRS Ch. 111-1/2, Section 1039 | Open Burning permit | ID# 04030 Location ID# 161807AAB | February 16, 2002 | February 16, 2003 | Open burning for emergency response fire fighter training |

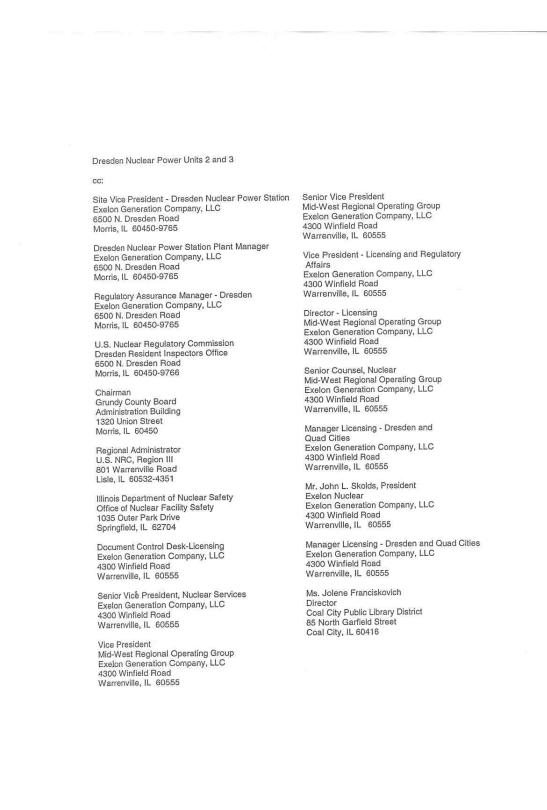
- Π
 CFR
 =
 Code of Federal Regulations

 WS=
 U.S. Fish and Wildlife Service
 NRC=
 U.S. Nuclear Regulatory Commission
 - EPA = U.S. Environmental Protection Agency
 - IEPA = Illinois Environmental Protection Agency
 - NMFS = National Marine Fisheries Service USC = United States Code
- NUREG-1437, Supplement 17



| R. Nelson | -2- |
|---|--|
| time, but normally operate mechanical draft towers a | peration is closed-cycle. DNPS can operate in closed-cycle at any as in this mode from October 1 through June 14, when the re typically not utilized. In this mode, water is circulated through the d 3, passed through the hot canal, and then routed back to the intake lating station gates. As cooling water system schematic diagram is |
| with Section 7 of the Enda information on protected, the vicinity of DNPS and i | ental impact statement preparation process and to ensure compliance angered Species Act, the NRC requests a list of species and proposed, and candidate species and critical habitat that may be in ts associated transmission lines. In addition, please provide any appropriate under the provisions of the Fish and Wildlife Coordination |
| Banquet and Convention | NEPA scoping meeting on April 10, 2003, at the Jennifer's Garden Center, 555 West Gore Road, Morris, Illinois. You and your staff are ffice will receive a copy of the draft SEIS along with a request for red publication date for the draft SEIS is December 2003. |
| If you have any questions please contact Mr. Louis DXW@nrc.gov. | s concerning the NRC staff review of the license renewal application, Wheeler, Senior Project Manager, at (301) 415-1444 or by email at |
| | Sincerely, /RA/ Pao-Tsin Kuo, Program Director License Renewal and Environmental Impacts Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation |
| Docket Nos.: 50-237 and | d 50-249 |
| Enclosures: DNPS Trans DNPS Coolir | mission Line Maps (2) ng Water System Schematic Diagram |
| cc w/encls.: See next pa | |

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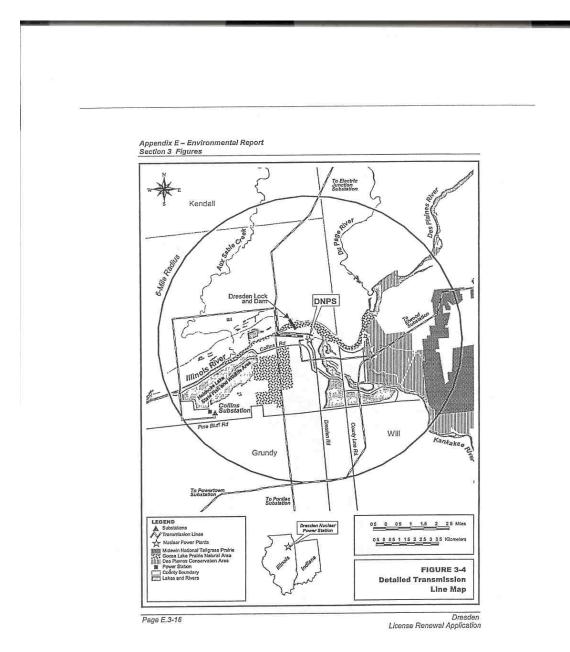


Ms. Deborah Steffes Reference Manager Morris Area Public Library 604 West Liberty Street Morris, IL 60450

William D. Maher License Renewal Environmental Lead Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348

Frederick W. Polaski License Renewal Manager Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348

Albert A. Fulvio Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348



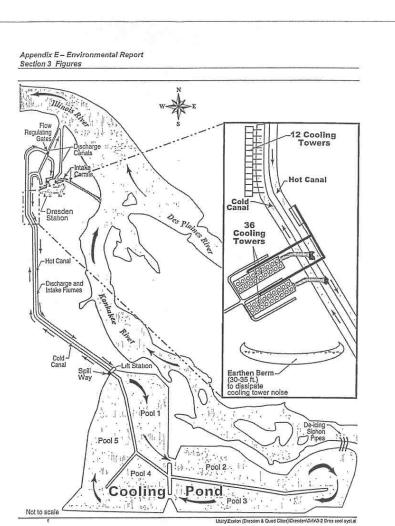


FIGURE 3-2. Cooling Water System Schematic.

Page E.3-14

Dresden License Renewal Application

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|---|--|
| | 200 20 |
| Department of | * |
| Natural Resources | http://dnr.state.il.us |
| One Natural Resources Way • Springfield, Illinois 62702-1271 | |
| 3/14-103 May 8, 2003 Rod R. Blagojevich, Governor | ran an a |
| 68 FR 12385 NBC Docket Nos. 50-254 ar | 2 |
| NRC Docket Nos. 50-254 ar 50-238 ar | nd 50-265 nd 50-249 |
| | |
| Chief of Rules and Directives Branch | |
| Division of Administrative Services | |
| Chief of Rules and Directives Branch Division of Administrative Services Mailstop T-6D59 United States Nuclear Regulatory Commission Washington, DC 20555 | NED VED |
| RE: Dresden Nuclear Power Station, Units 2 & 3 License Renewal Grundy County - License Nos. DPB-19 and DPR -25 Guad Cities Nuclear Power Station, Units 1 & 2 License Renewal Rock Island County - License Nos. DPR-29 and DPR-30 | |
| Endangered Species Consultation Program Natural Heritage Database Review #/s-0201014 & 0201015 | |
| To Whom This Concerns: | nlications |
| Thank you for submitting the January 3, 2003 operating license renewal ap regarding the Quad Cities Nuclear Power Station, Units 1 & 2 and Dresde Power Station, Units 2 & 3 for consultation in accordance with the <i>Illinois En</i> <i>Species Protection Act</i> [520 ILCS 10/11], the <i>Illinois Natural Areas Preservatio</i> . ILCS 30/17], and Title 17 <i>Illinois Administrative Code</i> Part 1075. The Natura Database identified the presence of State protected resources within the portions of the existing transmission lines associated with each power station impacts to State protected resources do not appear likely. Excelon has been a inform the Department if new transmission lines are proposed in the future. | n Nuclear Idangered n Act [525 I Heritage vicinity of Adverse advised to |
| The Department thoroughly discussed and evaluated the operating license applications for each of the subject power stations. It is the Department's opinion that continued operation of the power stations, as described and deta operating license applications, will not adversely affect State protected res existing environmental conditions in the immediate vicinity of the Dresden and Q nuclear power stations. | e renewal biological iled in the ources or |
| Consultation is limited to State-listed, threatened or endangered species, Illino Areas and dedicated Land & Water Reserves and Nature Preserves; it does n comprehensive environmental impact assessment. The Department may raise through other venues regarding potential impacts to other natural resources as appropriate. | is Natural ot entail a concerns s it deems |
| Templete = ADH 213 (2XW) | ied on recycles and recycloble stock |
| | |

NRC Docket Nos. 50-254 and 50-265 50-238 and 50-249 Thank you for the opportunity to comment on these nuclear power station operating license renewal applications. Should you have any questions, please do not hesitate to contact me. Sincerely, Stephen K. Davis, P.G. Chief Division of Natural Resource Review and Coordination Office of Realty and Environmental Planning cc:

: Division File M. Conlin T. Hickman R. Pietruszka D. Wheeler, NRC K. Jury, Excelon

United States Department of the Interior NATIONAL PARK SERVICE MIDWEST REGION 1709 JACKSON STREET OMAHA, NEBRASKA 68102-2571 3/24/03 MAY 2 1 2003 68FR 12386 ER-03/0276 Chief, Rules and Directives Branch Division of Administrative Services 4 Office of Administration Mail Stop T-6 D 59 U.S. Nuclear Regulatory Commission 1 Washington, D.C. 20555-0001 23 Ref: Docket 50-237 and 50-249 1.7 Dear Chief: Our office recently sent you comments concerning the review of the notice of intent to prepare an environmental impact statement for the Exelon Generation Company, LLC, Quad Cities nuclear power station, units 1 and 2, Rock Island County, Illinois, published in the *Federal Register*, on March 14, (page 12385). However, we intended those comments to be directed to the Exelon Generation Company, LLC, Dresden Nuclear Power Station, units 2 and 3, in Grundy County, Illinois, with the docket numbers listed above. We apologize for this confusion but we would like to offer again our comments that concern specifically the Dresden facilities. This project is located within the Illinois and Michigan Canal National Heritage Corridor (ILMI), an affiliated area of the National Park Service. Please include ILMI in all related project correspondences. If you have any questions, please contact Phyllis Ellin, Executive Director of ILMI, at 201 W. 10th St., #1-SE, Lockport, Illinois, 60441, telephone 815-588-6040. We again apologize for the confusion and appreciate the opportunity to provide these late comments. Sincerely, Dair n fan se Nga state se 10000 David N. Given 1000 10000 11110-00-0 200 T Acting Regional Director E-12FDS=ADHE-03 Sun. 11 acc= 2. abeler (DXW) Disciplate = ADAI-013



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

July 1, 2003

Mr. Maynard Crossland Director Illinois Historic Preservation Agency Preservation Services Division One Old State Capitol Plaza Springfield, IL 62701

SUBJECT: DRESDEN NUCLEAR POWER STATION LICENSE RENEWAL REVIEW AND (IHPA LOG NO. 0201160019WGR)

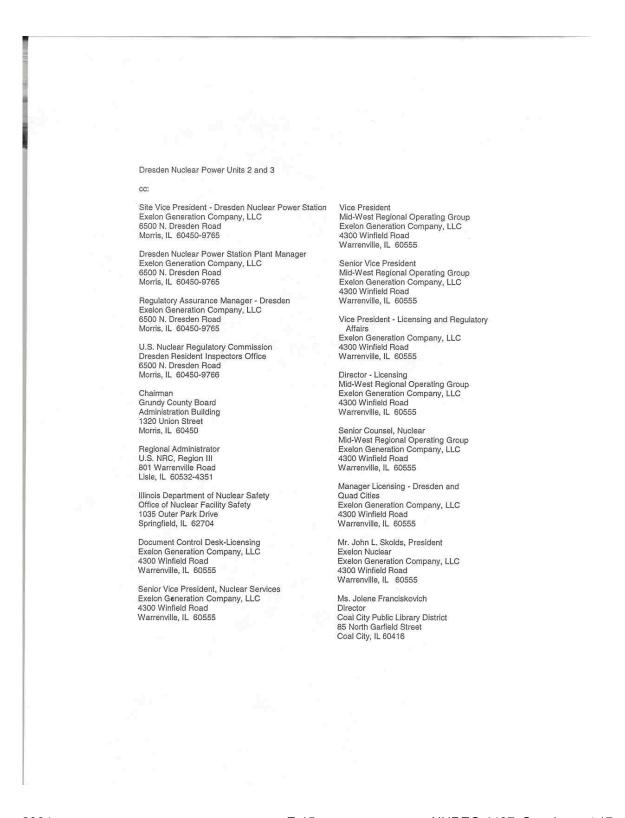
Dear Mr. Crossland:

The U.S. Nuclear Regulatory Commission (NRC) staff is reviewing an application to renew the operating licenses for Dresden Nuclear Power Station, Units 2 and 3 (DNPS), which is located in Goose Lake Township, Grundy County, Ilinois. DNPS is owned and operated by Exelon Generation Company, LLC (Exelon). The application for renewal was submitted by Exelon on January 3, 2003, pursuant to NRC requirements at Title 10 of the *Code of Federal Regulations* Part 54 (10 CFR Part 54). The NRC has established that, as part of the staff review of any nuclear power plant license renewal action, a site-specific Supplemental Environmental Impact Statement (SEIS) to its "Generic Environmental Impact Statement for License Renewal of Nuclear Plants" (GEIS), NUREG-1437, will be prepared under the provisions of 10 CFR Part 51, the NRC rules that implement the National Environmental Policy Act (NEPA). In accordance with 36 CFR 800.8, the SEIS will include analyses of potential impacts to historic and cultural resources. A draft SEIS is scheduled for publication in December of 2003, and will be provided to you for review and comment.

In the context of the National Historic Preservation Act, the Agency official (the Director, Office of Nuclear Reactor Regulation, NRC) has determined that the area of potential effect (APE) for a license renewal action is the area at the power plant site and its immediate environs which may be impacted by post-license renewal land disturbing operation or projected refurbishment activities associated with the proposed action. The APE may extend beyond the immediate environs in those instances where post-license renewal land disturbing operations or projected refurbishment activities, specifically related to license renewal, potentially have an effect on known or proposed historic sites. This determination is made irrespective of ownership or control of the lands of interest.

While preparing its application, Exelon contacted your office by letter dated January 11, 2002, and your office responded on January 30, 2002. In its letter, Exelon stated that the operation of DNPS, including the maintenance of identified transmission lines, through the license renewal term is not expected to affect cultural or historic resources in the area. Exelon further stated that no new construction was planned, and maintenance activities would be limited to previously disturbed areas. It was also noted that the American Nuclear Society designated DNPS Unit 1 as a Nuclear Historic Landmark. The January 30, 2002, response letter stated that based on

M. Crossland 2 the information provided, no historic properties would be affected, and IHPA had no objection to the undertaking proceeding as planned. We request that you respond to this letter and indicate whether there are any changes to the determination in your January 30, 2002, letter to Exelon. For your information, enclosed is one example of a letter sent from the NRC staff to 13 Native American Tribes identified by the Bureau of Indian Affairs as having potential interest in the proposed undertaking affording them the opportunity to participate in this process and identify Issues of concern to them. No issues have been identified to date. If you have any questions or require additional information, please contact the Environmental Project Manager, Duke Wheeler at 301-415-1444 or <u>DXW@nrc.gov</u>. Sincerely, /RA/ Pao-Tsin Kuo, Program Director License Renewal and Environmental Impacts Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation Docket Nos.: 50-237 and 50-249 Enclosure: As stated cc w/o encl.: See next page



Ms. Deborah Steffes Reference Manager Morris Area Public Library 604 West Liberty Street Morris, IL 60450

William D. Maher License Renewal Environmental Lead Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348

Frederick W. Polaski License Renewal Manager Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348

Albert A. Fulvio Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348

ENCLOSURE

LETTER TO: THE HONORABLE LISA WAUKAU, CHAIRPERSON

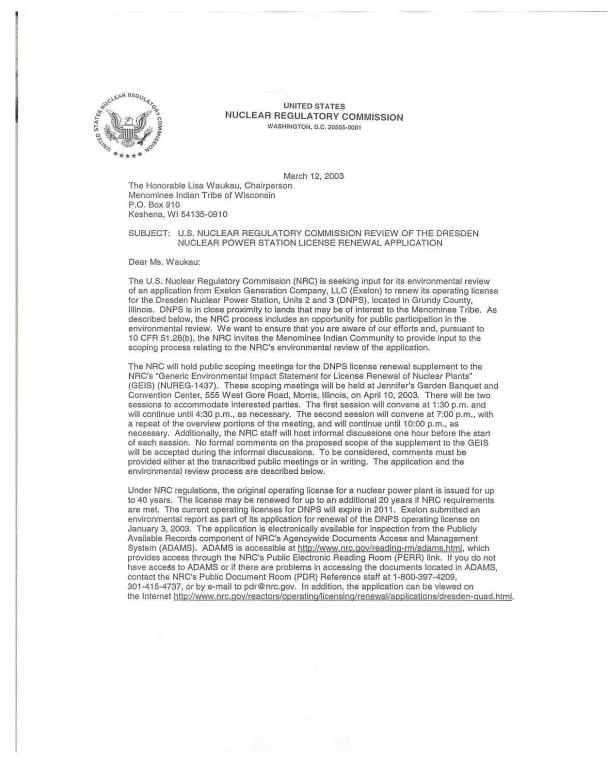
MENOMINEE INDIAN TRIBE OF WISCONSIN

(NATIVE AMERICAN TRIBE IDENTIFIED BY THE BUREAU OF INDIAN AFFAIRS)

MARCH 12, 2003

NUREG-1437, Supplement 17

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L. Waukau

A paper copy of the document can be viewed at the NRC's PDR, located at One White Flint North, 11555 Rockville Pike (first floor), Rockville, Maryland; at the Morris Area Public Library, 604 West Liberty Street, Morris, Illinois; and the Coal City Public Library District, 85 North Garfield Street, Coal City, Illinois. Also, the GEIS assesses the scope and impact of environmental effects that would be associated with license renewal at any nuclear power plant site. A copy of this document can also be found on the NRC's website or at the NRC's PDR.

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The NRC is gathering information for the document that will be a DNPS-specific supplement to the GEIS. The supplement will contain the results of the review of the environmental impacts on the area surrounding the DNPS site that are related to terrestrial ecology, aquatic ecology, hydrology, cultural resources, and socioeconomic issues (among others) and will contain a recommendation regarding the environmental acceptability of the license renewal action.

Please submit any written comments the Menominee Indian Community may have to offer on the scope of the environmental review by May 12, 2003. Comments should be submitted either by mail to the Chief, Rules and Directives Branch, Division of Administrative Services, Mail Stop T-6 D59, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001, or by e-mail to DresdenEIS@nrc.gov.

At the conclusion of the scoping process, the NRC staff will prepare a summary of the significant issues identified, the conclusions reached, and will mail a copy to you.

The NRC will prepare a draft supplemental environmental impact statement (SEIS) for public comment, and will hold another set of public meetings in the site vicinity to solicit comments on the draft. A copy of the draft SEIS will be sent to you for your review and comment. After consideration of public comments received on the draft, the NRC will prepare a final SEIS. The issuance of a final environmental statement for DNPS is planned for July 2004. If you need additional information regarding the environmental review process, please contact Louis L. Wheeler, Project Manager, at (301) 415-1444.

Sincerely, /RA/

Pao-Tsin Kuo, Program Director License Renewal and Environmental Impacts Program Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation

Docket Nos. 50-237, 50-249

cc: See next page

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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555-0001 August 11, 2003

Mr. Rick Nelson Field Supervisor U.S. Fish and Wildlife Service 4469 48th Avenue Court Rock Island, IL 61201

SUBJECT: EXPANDED SCOPE OF DRESDEN NUCLEAR POWER STATION APPLICATION FOR OPERATING LICENSE RENEWAL

Dear Mr. Nelson:

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This letter requests comments regarding the expanded scope of the environmental review associated with the proposed operating license renewals for Dresden Nuclear Power Station, Units 2 and 3 (DNPS).

On March 11, 2003, the U.S. Nuclear Regulatory Commission (NRC) staff requested your comments on the operating license renewal application for DNPS, located in Grundy County, Illinois. To support our preparation of an environmental impact statement and to ensure compliance with Section 7 of the Endangered Species Act (ESA), we requested a list of species and information on protected, proposed, and candidate species and critical habitats which may be in the vicinity of DNPS and its associated transmission lines. In addition, we requested any information you considered appropriate under the provisions of the Fish and Wildlife Coordination Act (FWCA).

We are writing now to inform you that since our March 11, 2003, letter, the scope of the transmission lines included in this environmental review has been expanded. Specifically, the length of the Goodings Grove transmission line corridor was stated in our letter as being 12.4 miles long and terminating at the Elwood substation in Will County. Based on additional information provided by the licensee, Exelon Generation Company, LLC, the length of the Goodings Grove substation in Will County, and occupies 903 acres (see attached map).

As provided for by the ESA and FWCA, we request that you consider the effects the expanded scope of the project may have on endangered and threatened species of fish and wildlife. Please notify us of any issues that we should consider during the preparation of the environmental impact statement for the proposed DNPS license renewal.

- 2 -If you have any questions concerning the process for the NRC staff review of the license renewal application, please contact Mr. Louis Wheeler, Senior Project Manager, at (301) 415-1444 or via e-mail at DXW@nrc.gov. Sincerely, /RA/ Pao-Tsin Kuo, Program Director License Renewal and Environmental Impacts Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation Docket Nos.: 50-237 and 50-249 Enclosure: DNPS Transmission Line Map cc w/encl.: See next page June 2004 E-21 NUREG-1437, Supplement 17

Dresden Nuclear Power Units 2 and 3

CC:

Site Vice President - Dresden Nuclear Power Station Exelon Generation Company, LLC 6500 N. Dresden Road Morris, IL 60450-9765

Dresden Nuclear Power Station Plant Manager Exelon Generation Company, LLC 6500 N. Dresden Road Morris, IL 60450-9765

Regulatory Assurance Manager - Dresden Exelon Generation Company, LLC 6500 N. Dresden Road Morris, IL 60450-9765

U.S. Nuclear Regulatory Commission Dresden Resident Inspectors Office 6500 N. Dresden Road Morris, IL 60450-9766

Chairman Grundy County Board Administration Building 1320 Union Street Morris, IL 60450

Regional Administrator U.S. NRC, Region III 801 Warrenville Road Lisle, IL 60532-4351

Illinois Department of Nuclear Safety Office of Nuclear Facility Safety 1035 Outer Park Drive Springfield, IL 62704

Document Control Desk-Licensing Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

Senior Vice President, Nuclear Services Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555 Vice President Mid-West Regional Operating Group Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

Senior Vice President Mid-West Regional Operating Group Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

Vice President - Licensing and Regulatory Affairs

Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

Director - Licensing Mid-West Regional Operating Group Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

Senior Counsel, Nuclear Mid-West Regional Operating Group Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

Manager Licensing - Dresden and Quad Cities Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

Mr. John L. Skolds, President Exelon Nuclear Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555 - 2 -

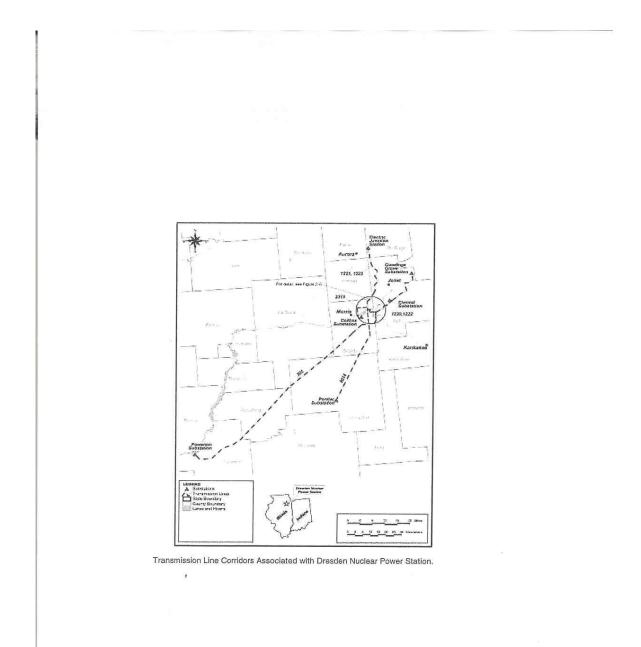
Ms. Jolene Franciskovich Director Coal City Public Library District 85 North Garfield Street Coal City, IL 60416

Ms. Deborah Steffes Reference Manager Morris Area Public Library 604 West Liberty Street Morris, IL 60450

William D. Maher License Renewal Environmental Lead Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348

Frederick W. Polaski License Renewal Manager Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348

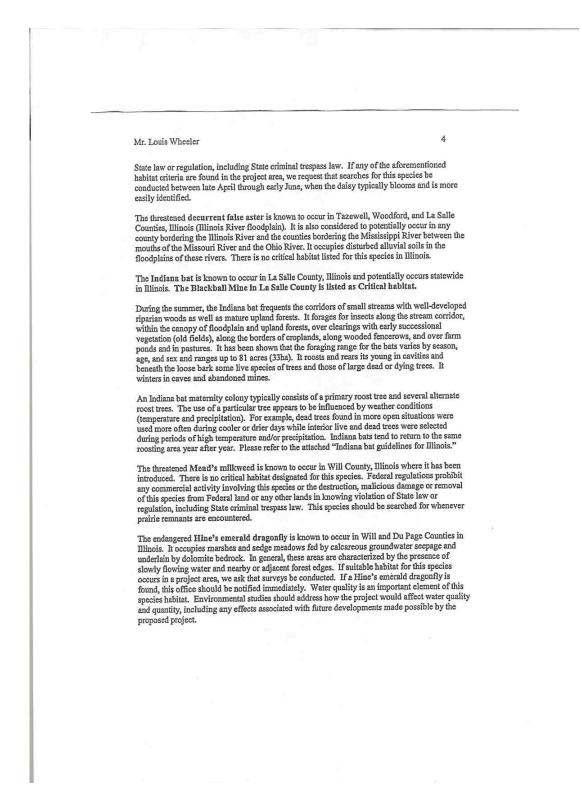
Albert A. Fulvio Exelon Nuclear 200 Exelon Way Kennett Square, PA 19348



United States Department of the Interior FISH AND WILDLIFE SERVICE Rock Island Field Office 4469 48th Avenue Court Rock Island, Illinois 61201 Phone: (309) 793-5800 Fax: (309) 793-5804 IN REPLY REFER FWS/RIFO September 15, 2003 United States Nuclear Regulatory Commission Attn: Mr. Louis Wheeler, Senior Project Manager License Renewal and Environmental Impacts Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation Washington, D.C. 20555-0001 Dear Mr. Wheeler: This is in response to your letters of March 11, 2003, and August 11, 2003, requesting our Ints is in response to your retters of march 11, 2005, and August 11, 2005, requesting our comments regarding renewal of the operating license for the Dresden Nuclear Power Station, Units 2 and 3 and the expanded scope of the environmental review associated with the proposed license renewals for Dresden Nuclear Power Station, Units 2 and 3 in Tazewell, Woodford, La Salle, Livingston, Grundy, Will, Kendall and Du Page Counties in Illinois. The expanded scope consists of expanding transmission lines into other counties. The following federally listed species are known to occur in the aforementioned counties in Illinois. Habitat Classification Common Name (Scientific Name) Tazewell County Threatened Bald eagle wintering Haliaeetus leucocephalus dry rocky prairies Lakeside daisy Threatened Hymenoxis herbacea (introduced) Illinois River floodplain Decurrent false aster Threatened Boltonia decurrens Woodford County Bald eagle wintering Threatened Haliaeetus leucocephalus

| Mr. Louis Wheeler | | 2 |
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| Threatened | Decurrent false aster Boltonia decurrens | Illinois River floodplain |
| La Salle County Threatened | Bald eagle Haliaeetus leucocephalus | wintering |
| Threatened | Decurrent false aster Boltonia decurrens | Illinois River floodplain |
| Endangered | Indiana bat Myotis sodalis | caves, mines; small stream corridors with well- developed riparian woods; upland and bottomland forests |
| | Critical habitat | Blackball Mine |
| Livingston Count See statewide distr | | |
| Grundy County Threatened | Bald eagle Haliaeetus leucocephalus | wintering |
| Threatened | Eastern prairie fringed orchid Platanthera leucophaea | wet grassland habitats |
| Will County Threatened | Bald eagle Haliaeetus leucocephalus | wintering |
| Threatened | Lakeside daisy Hymenoxis herbacea | dry rocky prairies (introduced) |
| Threatened | Mead's milkweed Asclepias meadii | dry/mesic prairies (introduced) |
| | TT to second descently | spring-fed wetlands |
| Endangered | Hine's emerald dragonfly Somatochlora hineana | |
| Endangered Endangered | | Des Plaines River floodplai |

| e <u>na seconda s</u> Na seconda secon 111 | | |
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| Mr. Louis Wheeler | | 3 |
| | 4) 22 | |
| Kendall County See statewide distri | ibution below. | |
| Du Page County | | |
| Threatened | Prairie bush-clover Lespedeza leptostachya | dry to mesic prairies |
| Threatened | Eastern prairie fringed orchid Platanthera leucophaea | wet grassland habitats |
| Endangered | Hine's emerald dragonfly Somatochlora hineana | spring-fed wetlands |
| Statewide | wara wa shi | |
| Threatened | Prairie bush-clover Lespedeza leptostachya | dry to mesic prairies |
| Threatened | Eastern prairie fringed orchid Platanthera leucophaea | wet grassland habitats |
| Endangered | Indiana bat | caves, mines; small stream |
| | Myotis sodalis | corridors with well- developed riparian woods; upland and bottomland forests |
| La Salle, Grundy az rivers or lakes. A ty after year. During the winter, the warm water eff plant cooling ponde | d eagle is listed as wintering and possibly nd Will Counties in Illinois. Bald eagles ypical nest is around 5 feet in diameter. E this species feeds on fish in the open wat luents of power plants and municipal and s. The more severe the winter, the greate | build their nests in large trees near agles often use the same nest year er areas created by dam tailwaters, industrial discharges, or in power the ice coverage and the more |
| in areas that are pro rest or feed on fish. harassed, harmed, o | gles become. They roost at night in grou otected from the harsh winter elements. There is no critical habitat designated for or disturbed when present nor may nest to ment Guidelines for Breeding Areas." | hey perch in large shoreline trees to or this species. The eagle may not be |
| Illinois. Historical prairies, on terraces soiled, degraded pr Federal regulations | ngered lakeside dalsy is known to occur ly, it has grown in outcrops of dolomite o s or hills associated with major river syst airie remnants. There is no critical habit prohibit any commercial activity involvi of this species from Federal land or any | r limestone bedrock, dry, gravelly ms. It is now restricted to dry, thin- it listed for this species in Illinois. ng this species or the malicious |
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Mr. Louis Wheeler 5 The endangered leafy prairie clover is known to occur in Will County, Illinois, and may potentially occur in LaSalle County. It occupies prairie remnants on thin soil over limestone bedrock. There is no critical habitat designated for this species. Federal regulations prohibit any commercial activity involving this species or the destruction, malicious damage or removal of this species from Federal land or any other lands in knowing violation of State law or regulation, including State criminal trespass law. If any prairie remnants are found within the project area, we request that searches for this species be conducted from late July through August, as this is when the clover typically flowers and is more easily identified. The prairie bush clover is known to occur in Lee County, Illinois and potentially occurs throughout Iowa and Illinois. Prairie bush clover occupies dry to mesic prairies with gravelly soil. Federal regulations prohibit any commercial activity involving this species or the destruction, malicious damage or removal of this species from Federal land or any other lands in knowing violation of State law or regulation, including State criminal trespass law. This species should be searched for whenever prairie remnants are encountered. The eastern prairie fringed orchid occupies wet grassland habitats and potentially occurs throughout Illinois. Possible habitat includes, but is not restricted to, mesic prairie, sedge meadows, marsh edges and bogs. If any of these aforementioned habitat remnants are found within any of the project areas, we request that searches for this species be conducted between June 28 and July 11, when the orchid typically flowers and is most identifiable. Federal regulations prohibit any commercial activity involving this species or the destruction, malicious damage or removal of this species from Federal land or any other lands in knowing violation of State law or regulation, including State criminal trespass law. The endangered Iowa Pleistocene snall is known to occur on north-facing slopes of the driftless area in Clinton County, Iowa. It occupies algific (cold-producing) talus slopes at the outlet of underground ice caves along limestone bluffs within a narrow regime of soil moisture and temperature. There is no critical habitat designated. It must not be harmed, harassed or disturbed. The project lies within the range of the eastern massasauga, a docile rattlesnake that is declining throughout its national range and is currently a Federal Candidate species. The snake is currently listed as endangered by the State of Illinois and is believed to occur in Will County. Your proactive efforts to conserve this species now may help avoid the need to list the species under the Endangered Species Act in the future. Due to their reclusive nature, we encourage early project coordination to avoid potential impacts to massasaugas and their habitat. The massasauga is often found in or near wet areas, including wetlands, wet prairie, or nearby woodland or shrub edge habitat. This often includes dry goldenrod meadows with a mosaic of early successional woody species such as dogwood or multiflora rose. Wet habitat and nearby dry edges are utilized by the snakes, especially during the spring and fall. Dry upland areas up to 1.5 miles away are utilized during the summer, if available. Some project management ideas include the following: 1) At a minimum, project evaluations should contain delineations of whether or not massasauga habitat occurs within project boundaries. Descriptions should indicate the quality and quantity of

Mr. Louis Wheeler

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massasauga habitat (holes, crayfish burrows, foraging area, or basking sites) that may be affected by the project.

2) In cases where massasaugas are known to occur or potential habitat is rated moderate to high, massasauga surveys may be necessary. If surveys are conducted, it may be helpful to inquire with local resource agency personnel, or reliable local residents, who may know of massasauga sightings. For more detailed information, please contact us.

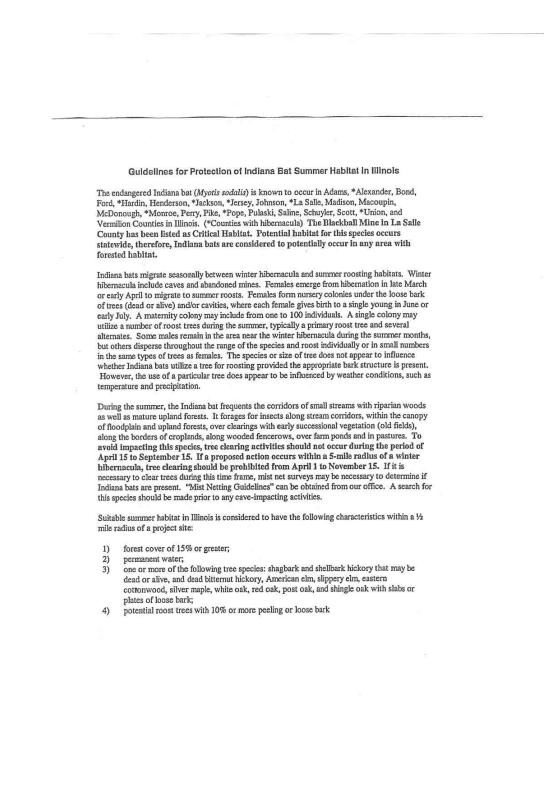
Migratory birds In addition to trying to ensure that electrical transmission lines and structures do not adversely affect threatened and endangered species, the U. S. Fish and Wildlife Service is also interested in minimizing potential impacts to other wildlife resources, particularly migratory birds. The Migratory Bird Treaty Act (16 U.S.C. 703-712) prohibits the taking, killing, possession, sale, transportation and importation of migratory birds, their eggs, parts and nests, except when specifically authorized by the Secretary of the Interior. The Bald and Golden Eagle Protection Act (16 U.S.C. 668) prohibits the taking of any bald or golden eagle except when specifically Act (10 U.S.C. 006) promots the taking of any bait of golden dage except when spectral authorized by the Secretary of the Interior. These laws do not allow the killing of migratory birds, including eagles without a permit. To avoid killing migratory birds, many companies employ raptor and migratory bird deterents and line configurations, which minimizes electrocution. These and other methods are described in *Avian Power Line Interaction* Committee (APLIC), 1994; Mitigating Bird Collisions with Power Lines: The State of the Art in 1994, Edison Electric Institute, Washington D.C., 78 pp.; Avian Power Line Interaction Committee (APLIC), 1996; Suggested Practices for Raptor Protection on Power Lines, Edison Electric Institute/Raptor Research Foundation, Washington, D. C., 128 pp. Copies can be obtained via the internet at http://www.eei.org/productsandservices/descriptionandaccess/ or by calling 1-800-334-5453.

We encourage you to work with us to eliminate loss of migratory birds attributable to power lines and other power transmission facilities. If you would like additional information, please contact us as indicated below.

In addition, The Corps of Engineers is the Federal agency responsible for wetland regulation. We In addition, the Corps of Engineers is the rederat agency responsible for weihand regulation, we recommend that you contact them for assistance in delineating any wetland types and acreage within the expanded scope of the project. Priority consideration should be given to avoid impacts to these wetland areas. Any activities that would alter these wetlands may require a Section 404 permit. Unavoidable impacts will require a mitigation plan to compensate for any losses of wetland functions and values. The U.S. Army Corps of Engineers, Clock Tower Building, P.O. Box 2004, Rock Island, Illinois 61201, should be contacted for information about the permit process.

These comments provide technical assistance only and do not constitute a report of the Secretary of the Interior on a project within the meaning of Section 2(b) of the Fish and Wildlife Coordination Act, do not fulfill the requirements under Section 7 of the Endangered Species Act, nor do they represent the review comments of the U.S. Department of the Interior on any forthcoming environmental statement.

Mr. Louis Wheeler 7 If you have any questions concerning our comments, please contact Ginger Molitor of my staff at (309) 793-5800 ext. 212. Sincerely Richard C.Alelson Supervisor Cc: Jessie Coty, Kris Lah Enclosures G:\Word Documents\Ginger\completed\Illinois\DresdenNuclear Regulatory Commission t



If the project site contains any habitat that fits the above description, it may be necessary to conduct a survey to determine whether the bat is present. If Indiana bats are known to be present, they must not be harmed, harassed or disturbed when present. Large-scale habitat alterations within known or potential Indiana bat habitat should not be permitted without a bat survey and/or consultation with this office. Minor tree clearing (i.e. timber stand improvement or clearing of small stands) should conserve trees which are dead or have loose bark and should be limited to non-maternity periods between the dates of September 16 and April 14. If you have any comments or questions, please contact the Rock Island Field Office at (309) 793-5800.

Appendix E Management GUIDELINES FOR BREEDING AREAS

The purpose of these guidelines is to provide minimum criteria for protecting bald eagles at their breeding areas from human disturbance and to preserve and enhance important habitat features of these areas. The criteria are based on a synthesis of existing guidelines in present use by the U.S. Forest Service (Eastern Region), U.S. Fish and Wildlife Service, and the views of eagle researchers.

Although eagles often use particular nests for many years, they frequently move to different sites. Turnover of existing nests, from losses to wind, changes by the eagles, and other natural factors may be as much as l2X of the sites per year. Eagle "real estate" is much less fixed than for humans. Thus, the conservation and management of nesting habitat is far more important than the identification and preservation of specific nest sites or even breeding areas.

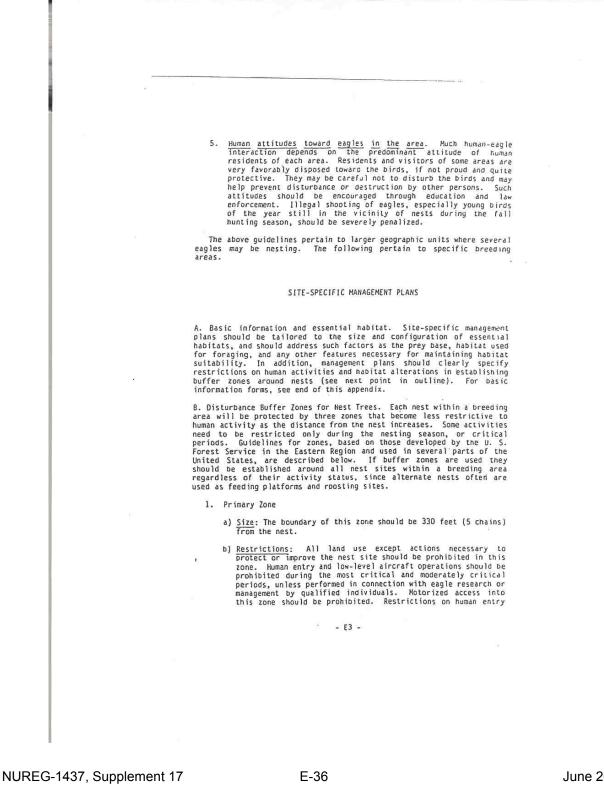
Eagle tolerance of human presence is highly variable, both seasonally and among different individuals or pairs of eagles. Some baid eagles nest and accept people, boaters, hikers, cabins, roads, and other human presence in very close proximity, possibly as a result of habituation. On the other hand, some may be extremely intolerant and be disturbed readily. This variability must be recognized in both research and management. Management should be conservative and assume that intolerant birds may be present now or in the future. We should be especially conservative in areas with low populations.

All nesting eagles are disturbed more easily at some times of the nesting season than at others. Four periods of sensitivity to disturbance can be identified for nesting areas. These are as follows.

- Most critical period. Prior to egg laying bald eagles engage in courtship activities and nest building. During this and the incubation periods they are most intolerant of external disturbances and may readily abandon the area. The most critical period for disturbances therefore extends from approximately one month prior to egg laying through the incubation period.
- 2. <u>Moderately critical period</u>. This includes approximately one month prior to the above period and about four weeks after hatching. Prior to the nesting season individual pairs of eagles vary considerably in time of return to the nest site or, if permanent residents, the time they begin to come into physiological condition for breeding and become sensitive to

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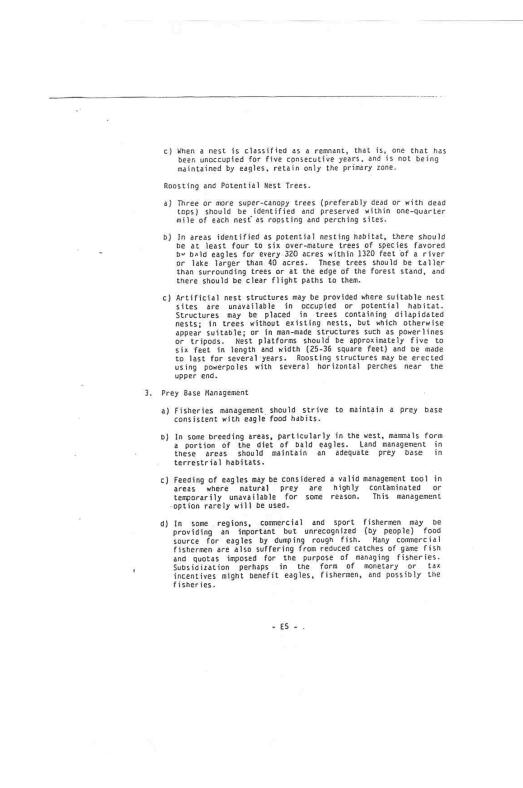
disturbance. After hatching the chicks are quite vulnerable to inclement weather and need frequent brooding and feeding. Disturbance can keep adults from nests and, depending on the weather and length of time involved, may cause weakening or death of chicks. The adults are quite protective of the nest site as long as one or more healthy chicks are present. Thus, disturbance at this time is less critical, although still potentially detrimental, than during the pre-laying and incubation period. 3. Low critical period. This period extends from the time chicks are about one month of age until approximately six weeks after fledging. During this time adults are still quite attached to nesting areas but tolerate moderate amounts of human presence. Restriction should be decided on a case by case basis. 4. Not critical period. The existence of this period depends on whether adults are permanent residents in their nesting areas. In most regions adults leave the vicinity for a few weeks or months each year. During the time they are gone one need be concerned only with activities that alter the habitat in ways that would make it unsuitable for future nesting. The timing of these periods depends on geographic location. Eagles tend to breed earlier farther south or in coastal locations. Establishment of critical periods in managment planning will therefore depend on the timing of nesting in each area. Management of nesting areas will depend on the amount of suitable habitat, numbers of pairs present, extent of the areas used by nesting eagles, and present land uses. Plans should be prepared for each breeding area and planning should encompass larger units when habitat is suitable and many nesting pairs are present. In planning for a large region, particularly if major changes in land use or development are anticipated, the following major items should be addressed: Distribution of <u>habitat modification</u>. Large contiguous areas of <u>habitat should remain suitable</u>, not just small, specific sites where nests currently are located. Upper limit to habitat modification. Limits on habitat modification should be clearly established in advance, and unplanned development should be discouraged or prohibited. Limits set in advance are generally more acceptable to persons desiring further development; the process permits reasonable negotiation and compromise and limits are easier to enforce. 2. <u>Rate of development</u>. Development should only be allowed to <u>approach</u> the upper limit <u>slowly</u>, over a period of years. Sudden, large-scale development should be prevented if possible. Seasonal timing of human activity. Construction and related activities should be confined to the low or non-critical periods 4. of the year described above. - E2 -



June 2004

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| | at otner times should be addressed in the breeding area management plan, considering the types, extents, and durations of proposed or likely activities. |
| 2. Se | condary zone |
| a) | Size: This zone should extend 660 feet (10 chains) from the nest. |
| b) | Restrictions: Land-use activities that result in significant changes in the landscape, such as clearcutting, land clearing, or major construction, should be prohibited. Actions such as thinning tree stands or maintenance of existing improvements can be permitted, but not during the most critical and moderately critical periods. Human entry and low-level aircraft operations should be prohibited during the most critical period unless performed in connection with necessary eagle research and management by qualified individuals. Roads and trails in this zone should be obliterated, or at least closed during the most and moderately critical periods. Restrictions on human entry at other times should be addressed in the breeding area management plan, considering the types, extents, and durations of proposed or likely activities. |
| 3. Ter | tiary Zone |
| 1 i.i. | <u>Size</u> : This is the least restrictive zone. It should extend one-quarter mile (20 chains) from the nest, but may extend up to one-half mile (40 chains) if topography and vegetation permit a direct line of sight from the nest to potential activities at that distance. The configuration of this zone, therefore, may be variable. |
| > ` | Restrictions: Some activities are permissible in this zone except during the most critical period. Each breeding area management plan may identify specific hazards that require additional constraints. |
| C. Other M | anagement Guidelines. |
| . 1. Aba | ndoned Nest Trees |
| | When a tree containing an eagle nest has blown down or has been damaged so it can no longer support a nest, remove all buffer zones. The breeding area management plan itself, however, should remain in effect or be revised, such as by removing buffer zones until a new nest is established. |
| * 1 | When a nest structure disappears but the nest tree remains the buffer zones should remain in effect through at least the following three breeding seasons. If the nest is not rebuilt, remove the zoning but still consider the area as essential habitat and protect it accordingly. |

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| | SITE-SPECIFIC MANAGEMENT PLANS Outline for data file and breeding area management plans | |
| | Breeding Area No. and Name: | |
| | Nest No. (s): | |
| | Location: | |
| | Date: | |
| | By: | |
| | I. Breeding Area Characteristics | |
| | A. General Description Nest Site Relationships Overview of Habitat and Land Uses | |
| | B. Feeding Areas (Known and/or Assumed) | |
| | C. Known or Potential Perch/Roost Trees | |
| | D. Potential Nest Sites Available | |
| | E. Land Owernship within Breeding Area Identify Acquisition Needs | |
| | F. Post-nesting Use of Habitat | |
| | II. Nest Site Characteristics (Each nest in territory) | |
| | A. Tree Measurements (height, DBH, size); Nest Measurements | |
| | B. Condition of Nest Tree | |
| | C. Date Constructed | |
| | D. Timber Type, Size and Density | |
| | E. Distance to Water F. Distance to Roads and Other Development | |
| | F. Distance to koads and other development G. Accessibility | |
| | Relation of Nest Height to Surrounding Canopy | |
| | 1. Precise Directions for Reaching Nest | |
| | | |
| | - E6 - | |



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

January 13, 2004

Mr. Maynard Crossland Director Illinois Historic Preservation Agency Preservation Services Division One Old State Capitol Plaza Springfield, IL 62701

SUBJECT: DRESDEN NUCLEAR POWER STATION LICENSE RENEWAL REVIEW

Dear Mr. Crossland:

The U.S. Nuclear Regulatory Commission (NRC) staff is reviewing an application to renew the operating licenses for Dresden Nuclear Power Station, Units 2 and 3 (DNPS), which is located in Goose Lake Township, Grundy County, Illinois. DNPS is owned by Exelon Generation Company, LLC (Exelon). Exelon holds the NRC license to operate the plant. As part of its review of the proposed action, the NRC staff has prepared a site-specific Supplemental Environmental Impact Statement (SEIS) to its "Generic Environmental Impact Statement for License Renewal of Nuclear Plants" (GEIS), NUREG-1437. The SEIS includes analyses of relevant environmental issues, including potential impacts to historic, archeological and cultural properties from refurbishment activities associated with license renewal, and for the extended period of operation. In accordance with our letter to you of July 1, 2003, a copy of the draft supplement and on our preliminary conclusions regarding historic properties.

As stated in our July 1, 2003, letter the NRC staff has determined that the area of potential effect (APE) for a license renewal action is the area at the power plant site and its immediate environs which may be impacted by post-license renewal land disturbing operation or projected refurbishment activities associated with the proposed action. The staff views the APE for the DNPS license renewal as including the DNPS site and the immediate environs.

The NRC staff has conducted an environmental audit at the site, and has reviewed historic and archaeological records. As noted in our July 1, 2003, letter we also contacted fifteen Native American Tribes identified as having potential interest in the proposed undertaking. To date, no comments have been received.

In the context of the National Environmental Policy Act of 1969 under which the draft environmental impact statement was prepared, the NRC staff's preliminary determination is that the impact of license renewal on historical and archaeological resources is SMALL and additional mitigation is not warranted. Under the provisions of the National Historic Preservation Act of 1966, the NRC staff's preliminary determination is that there will be no historic properties affected for the proposed action. M. Crossland

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Please note that the period for public comment expires on February 24, 2004. If your office requires additional time, or if there are any other questions regarding this correspondence, please have your representative contact the Environmental Project Manager, Mr. Louis Wheeler, at 301-415-1444 or <u>DXW@nrc.gov</u>.

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Sincerely, /RA/ Pao-Tsin Kuo, Program Director License Renewal and Environmental Impacts Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation

Docket Nos.: 50-237, 50-249

Enclosure: As stated

cc w/o Encl.: See next page

Dresden Nuclear Power Units 2 and 3

CC:

Site Vice President - Dresden Nuclear Power Station Exelon Generation Company, LLC 6500 N. Dresden Road Morris, IL 60450-9765

Dresden Nuclear Power Station Plant Manager Exelon Generation Company, LLC 6500 N. Dresden Road Morris, IL 60450-9765

Regulatory Assurance Manager - Dresden Exelon Generation Company, LLC 6500 N. Dresden Road Morris, IL 60450-9765

U.S. Nuclear Regulatory Commission Dresden Resident Inspectors Office 6500 N. Dresden Road Morris, IL 60450-9766

Chairman Grundy County Board Administration Building 1320 Union Street Morris, IL 60450

Regional Administrator U.S. NRC, Region III 801 Warrenville Road Lisle, IL 60532-4351

Illinois Department of Nuclear Safety Office of Nuclear Facility Safety 1035 Outer Park Drive Springfield, IL 62704

Document Control Desk-Licensing Exelon Generation Company, LLC 4300 Winfield Road Warrenville, IL 60555

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Ms. Jolene Franciskovich Director Coal City Public Library District 85 North Garfield Street Coal City, IL 60416

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

February 12, 2004

Mr. Richard C. Nelson, Supervisor Rock Island Field Office U.S. Fish and Wildlife Service 4469 48th Avenue Court Rock Island, Illinois 61201

> REQUEST FOR CONCURRENCE - BIOLOGICAL ASSESSMENT FOR DRESDEN NUCLEAR POWER STATION, UNITS 2 AND 3 LICENSE RENEWAL (TAC NOS. MB6843 AND MB6844)

Dear Mr. Nelson:

Subject:

The U.S. Nuclear Regulatory Commission (NRC) staff has prepared the enclosed Biological Assessment (BA) to evaluate whether the proposed renewal of the operating licenses of the Dresden Nuclear Power Station, Units 2 and 3 (Dresden), for an additional 20-year period would have adverse effects on listed species, and request concurrence by your office.

Dresden is located in Goose Lake Township on the south shoreline of the Illinois River at the confluence of the Des Plaines and Kankakee Rivers. This BA evaluates the potential impacts of the proposed license renewal on Federally listed threatened or endangered species. Ten species, afforded protection under the Endangered Species Act of 1973, could potentially inhabit the Dresden site or transmission line rights-of-way (ROWs). For four of the species, the decurrent false aster (*Boltonia decurrens*), the leafy prairie-clover (*Dalea foliosa*), the lakeside daisy (*Hymenoxys herbacea*), and the Hine's emerald dragonfly (*Somatochlora hineana*), the renewal of the Dresden licenses will have "no effect." For the Mead's milkweed (*Asclepias meadii*), the prairie bush clover (*Lespedeza leptostachya*), the eastern prairie fringed orchid (*Platanthera leucophaea*), the eastern massasauga (*Sistrurus catenatus*), the Indiana bat (*Myolis sodalis*), and the bald eagle (*Haliaeetus leucocephalus*), the staff has determined that license renewal for Dresden may affect, but is not likely to adversely affect these six species.

In reaching our conclusion, we relied on information provided by Exelon Generation Company, LLC (the licensee), on research performed by the NRC staff, and on current listings of species provided by the Rock Island Field Office of the U.S. Fish and Wildlife Service.

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If you have any questions regarding this BA or our request for concurrence, please contact Mr. Duke Wheeler, NRC Senior Environmental Project Manager, at (301) 415-1444.

Sincerely, 2

Pao-Tsin Kuo, Program Director License Renewal and Environmental Impacts Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation

Docket Nos.: 50-237 and 50-249

Enclosure: As stated

cc w/encl: See next page

BIOLOGICAL ASSESSMENT

Dresden Nuclear Power Station, Units 2 and 3 License Renewal

Grundy County, Illinois

February 2004

Docket Nos. 50-237 and 50-249

U.S. Nuclear Regulatory Commission Rockville, Maryland

Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001

Enclosure

NUREG-1437, Supplement 17

ACCESS OF A DESCRIPTION OF

Biological Assessment of the Effects of License Renewal for the Dresden Nuclear Power Station, Units 2 and 3 Threatened or Endangered Species

Executive Summary

This Biological Assessment (BA) evaluates the potential impacts of the proposed license renewal for the Dresden Nuclear Power Station, Units 2 and 3 (Dresden) on Federally listed threatened or endangered species. There will be no major construction, refurbishment, or replacement activities associated with this action. A total of ten species, afforded protection under the Endangered Species Act of 1973, could potentially inhabit the Dresden site or transmission line rights-of-way (ROWs). The U.S. Nuclear Regulatory Commission (NRC) staff decurrent false aster (*Boltonia decurrens*), the leafy prairie-clover (*Dalea foliosa*), the lakeside daisy (*Hymenoxys herbacea*), and the Hine's emerald dragonfly (*Somatochlora hineana*), the renewal of the Dresden licenses for an additional 20 years will have "no effect." For the Mead's prairie fringed orchid (*Platanthera leucophaea*), the eastern massasauga (*Sistrurus catenatus*), the Indiana bat (*Myotis sodalis*), and the bald eagle (*Haliaeetus leucocephalus*), the staff has determined that license renewal for Dresden dresden may affect, but is not likely to adversely affect

Introduction

The NRC licenses the operation of domestic nuclear power plants in accordance with the Atomic Energy Act of 1954, as amended, and NRC implementing regulations. Exelon Generation Company, LLC (Exelon) operates Dresden pursuant to NRC Operating License Numbers DRP-19 and DRP-25, which expire on December 22, 2009, and January 12, 2011, respectively.

Exelon has prepared an environmental report in conjunction with its application for renewal of the Dresden operating licenses, as provided for by the following NRC regulations:

- Title 10, Energy, Code of Federal Regulations (CFR) Part 54, Requirements for Renewal of Operating Licenses for Nuclear Power Plants, Section 54.23, Contents of Application - Environmental Information (10 CFR 54.23).
- Title 10, Energy, CFR Part 51, Environmental Protection Requirements for Domestic Licensing and Related Regulatory Functions, Section 51.53, Postconstruction Environmental Reports, Subsection 51.53(c), Operating License Renewal Stage [10 CFR 51.53(c)].

The renewed operating license would allow up to 20 additional years of plant operation beyond the current licensed operating period.

No major refurbishment or replacement of important systems, structures, or components are expected during the Dresden license renewal period. In addition, no construction activities are expected to be associated with license renewal.

In a letter dated March 11, 2003, the NRC staff requested comments from the FWS on the operating license renewal application for Dresden (Kuo 2003a). Specifically, the NRC

requested a list of species and information on protected, proposed, and candidate species and critical habitat that may be in the vicinity of Dresden and its associated transmission line ROWs. The NRC also wrote the FWS on August 11, 2003, requesting information regarding the expanded scope of transmission lines being included in this review (Kuo 2003b). The FWS responded with a list of species and critical habitat that could occur on the Dresden site or along its associated transmission line ROWs (Nelson 2003).

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This BA examines the effects of the Dresden operating license renewal on Federally listed species that occur in the counties where the Dresden site and associated transmission line ROWs are located. It has been prepared to support consultation regarding the effects of the proposed renewal of the operating licenses for Dresden on threatened and endangered species and designated critical habitat pursuant to Section 7(a)(2) of the Endangered Species Act (ESA). This consultation is between the U.S. Nuclear Regulatory Commission (NRC) and the U.S. Fish and Wildlife Service (FWS). The BA examines the effects of the proposed action on the listed species that occur in counties where the Dresden site and associated transmission lines are located. The pallid sturgeon (*Scaphirhynchus albus*) is the only Federally listed fish species found in Illinois. This species occurs in the Mississippi River downstream of the confluence with the Missouri River and is unlikely to occur in the Upper Illinois River Basin where the Dresden site and associated transmised the confluence with the Missouri River and is unlikely to occur in the Upper Illinois River Basin where the Dresden site is located (FWS 1998). Pallid sturgeon have not been found in the vicinity of the Dresden site and are not considered in this BA.

The ten Federally listed species that could occur within the Dresden site or along its associated transmission line ROWs are listed in Table 1. In addition to the species in Table 1, a designated critical habitat exists for the Indiana bat in LaSalle County, far (40 mi [64 km]) from the nearest Dresden transmission line ROW.

Exelon has also corresponded with the FWS and the Illinois Department of Natural Resources (IDNR) regarding potential impacts of license renewal on threatened and endangered species (Jury 2002a, 2002b). The FWS indicated that it had no objection to the proposed license renewal action (Millar 2002).

Proposed Action

The proposed Federal action is renewal of the operating licenses for Dresden Units 2 and 3. The current operating license for Unit 2 expires on December 22, 2009, and for Unit 3 on January 12, 2011. Exelon submitted an application to the NRC (Exelon 2003) to renew these operating licenses for an additional 20 years of operation.

Dresden has two boiling water reactors designed by General Electric Company, each with a design rating for 912 megawatts electric (MW[e]). The cooling systems can operate in either of two modes. In the indirect open-cycle mode, once-through cooling water from the Kankakee River is used to remove heat from the main (turbine) condensers. The heated effluent is circulated through a cooling canal and pond before being discharged to the Illinois River. In the closed-cycle mode, heated effluent is circulated through mechanical draft cooling towers and then recycled through the condensers with limited make-up water withdrawn from the Kankakee River.

The proposed action would necessitate continued maintenance activities on ROWs for seven transmission lines that are used to connect Dresden to the electric power grid.

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Table 1. Threatened, Endangered, and Candidate Species that Occur in Counties that Contain Dresden Units 2 and 3 and Associated Transmission Lines.^(a)

| Scientific Name | Common Name | Federal Status ^(b) | County ^(c) | Habitat |
|-----------------------------|-----------------------------------|----------------------------------|---|---|
| Asclepias meadii | Mead's milkweed | т | Will | Mesic prairies ^(d, e) |
| Boltonia decurrens | decurrent false aster | т | LaSalle, Tazewell, Woodford | Alluvial prairie and marshlands of the Illinois River flood plain ^(d, e) |
| Dalea foliosa | leafy prairie- clover | E | Will | Dolomite prairie remnants ^(d, a) |
| Hymenoxys herbacea | lakeside daisy | т | Tazewell, Will | Dolomite prairies ^{(d, e} |
| Lespedeza leptostachya | prairie bush clover | т | DuPage, Grundy, Kendall, LaSalle, Livingston, Tazewell, Woodford, Will | Dry gravel and sand prairies ^(d, e) |
| Platanthera leucophaea | eastern prairie fringed orchid | Т | DuPage, Grundy, Kendall, LaSalle, Livingston, Tazewell, Woodford, Will | Mesic to wet prairies ^(d, e) |
| Somatochlora hineana | Hine's emerald dragonfly | E | DuPage, Will | Calcareous spring- fed marshes ^(e, f) |
| Sistrurus catenatus | eastern massasauga | С | Will | Shrubby wetlands ^(e. g) |
| Haliaeetus leucocephalus | bald eagle | т | Grundy, LaSalle, Tazewell, Woodford, Will | Known to occur in winter, possibly also breeding in area; occurs along large rivers and lakes ^(e, f) |
| Myotis sodalis | Indiana bat | E | DuPage, Grundy, Kendall, LaSalle, Livingston, Tazewell, Woodford, Will | Wooded, riparian corridors, floodplain forests and upland forests ^(e, f) |

Herkert (1992). FWS (2003b).

(g)

Project Area Description

Dresden is owned and operated by Exelon, and it is located on the south bank of the Illinois River at the confluence of the Des Plaines and Kankakee Rivers in Goose Lake Township, Grundy County, Illinois (Figure 1). The plant consists of three units. Units 2 and 3 are operating nuclear reactors and the subject of this consultation. Unit 1 was retired in 1978 and decontaminated in 1984, including the removal of fuel from the reactor. Units 2 and 3 are boiling water reactors (BWRs) that produce steam that turns turbines to generate electricity. In addition to the nuclear reactors and their turbine buildings, the site features intake and discharge canals, a cooling pond and canals, auxiliary buildings, switch yards, an independent spent fuel storage installation, a training center, and river frontage leased from the State of Illinois. Approximately one-half of the cooling pond is in Wilmington Township, Will County; and the other half is in Goose Lake Township, Grundy County, Illinois.

The local terrain is level to gently undulating except for the Kankakee Bluffs just northeast of the Dresden site on the north bank of the Illinois River. The area around Dresden is largely rural, characterized by farmland, woodlands, and small residential communities. The Goose Lake Prairie State Natural Area is located approximately 1.6 km (1 mi) southwest of the Dresden site. This 1015-ha (2537-ac) preserve contains the largest remnant of prairie left in Illinois and includes open grasslands and prairie marshes (Exelon 2003). Directly across the Kankakee River from the Dresden site is the 200-ha (500-ac) Des Plaines Conservation Area, which offers a variety of recreational opportunities. To the east of the Des Plaines Conservation Area is the Midewin National Tallgrass Prairie, a 6400-ha (16,000-ac) site formerly used as the Joliet Army Ammunition Plant. This area was transferred to the U.S. Forest Service in 1997 and is now being managed to restore, maintain, and enhance prairie

Dresden is located at the headwaters of the Illinois River where the Des Plaines and the Kankakee Rivers join to form the Illinois River (Figure 2). There is a 7-m-high (22-ft-high) dam at Dresden Island, approximately 3 km (2 mi) downstream from the confluence of the Kankakee and the Des Plaines Rivers, a 10-m-high (34-ft-high) dam just south of Joliet at Brandon Road, and a 12-m-high (40-ft-high) dam on the Des Plaines River just south of Lockport. Construction of these dams has resulted in a series of reservoirs maintained principally to facilitate barge traffic. Pool elevations are controlled, eliminating natural, seasonal flushing events, and are

The Dresden site occupies approximately 1011 ha (2500 ac) (Exelon 2003). Undeveloped areas of the Dresden site are located mostly on the western half and support a mosaic of habitats, including old fields, wetlands, and woodland vegetation. Several small, intermittent streams drain the site. Some of this undeveloped area is leased for cattle grazing.

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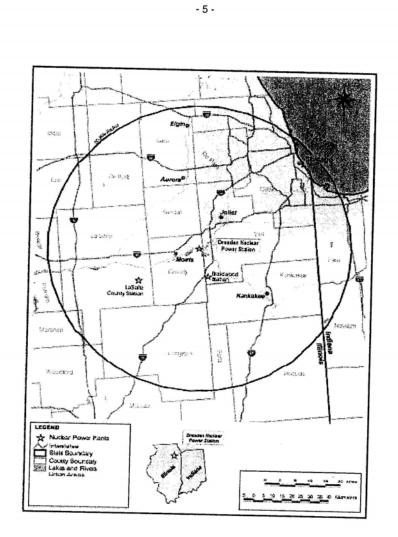


Figure 1. Location of Dresden Site with 80-km (50-mi) Radius.

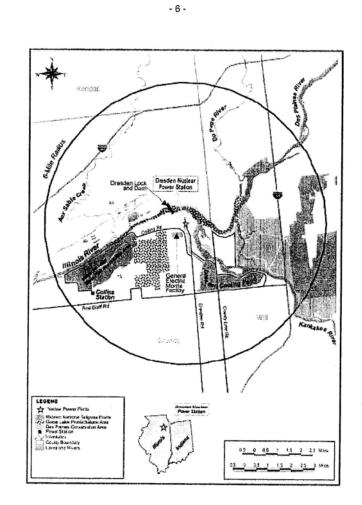


Figure 2. Dresden Site Detail with 10-km (6-mi) Radius.

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Seven transmission lines connect Dresden to the electric grid (Exelon 2003). These lines occupy about 2440 ha (6030 ac) of land along 355 km (220 mi) of ROWs. These transmission line (ROWs) cross mostly agricultural land, but portions of the lines cross undeveloped habitats. Exelon maintains the ROWs by trimming and mowing, and through the application of approved herbicides (Cunningham 2003). Exelon participates in "Project Habitat," an industry program that emphasizes ROW management practices that are compatible with wildlife and improve habitat for native species. Exelon has converted some portions of the transmission line corridors to native prairie grass species (Exelon 2003). On those line ROWs associated with Dresden license renewal, prairie has been established on a 4-km (2.5-mi) segment on the northern portion of the Electric Junction transmission line in DuPage County.

The Pontiac-Midpoint transmission line ROW (69.7 km [43.3 mi] long) crosses the Goose Lake Prairie State Natural Area, which is located approximately 1.6 km (1 mi) southwest of the Dresden site (Exelon 2003). Habitats within the Goose Lake Prairie State Natural Area include tallgrass prairie and marshes (IDNR 2003).

The Powerton and the Goodings Grove transmission line ROWs (168.2 km [104.5 mi] and 20.0 km [12.4 mi], respectively) cross the Des Plaines Conservation Area, which is located across the Kankakee and the Des Plaines Rivers approximately 3.2 km (2 mi) east of the Dresden site. Natural habitats within the Des Plaines Conservation Area include river shorelines, lakes, swamps, marshes, and prairie (Exelon 2003). The Midewin National Tallgrass Prairie is immediately east of the Des Plaines Conservation Area and is crossed by a short segment of the Goodings Grove transmission line corridor. All ROW maintenance activities on the Midewin National Tallgrass Prairie must be reviewed and approved by U.S. Forest Service staff before implementation.

A portion of the Collins transmission line ROW (19.0 km [11.8 mi]) is located along Heidecke Lake State Fish and Wildlife Area, approximately 8 km (5 mi) southwest of the Dresden site. Most of the area is occupied by a cooling lake which is leased to the IDNR for hunting and fishing. The Electric Junction transmission line ROW (50.1 km [31.1 mi]) does not cross any designated natural areas. Both of these transmission lines cross the Illinois River.

Exelon maintains its transmission corridors by trimming and mowing and through the use of approved herbicides. Unless otherwise needed, vegetation management follows a five-year cycle. The preferred method of vegetation management is the use of low-volume foliar herbicides. This allows the elimination of undesirable species while preserving grasses, herbs, forbs, shrubs, and other low-growing vegetation. Herbicide application is performed according to label specifications by certified applicators. Special attention is given to stream crossings, riparian and wetland areas (NRC 2003).

Current Exelon ROW management practices reduce the probability of impacts to habitats and the species that are dependent on them. All activities in Goose Lake Prairie State Natural Area, Des Plaines Conservation Area, and Midewin National Tallgrass Prairie are planned in consultation with staff at those sites and must be approved prior to implementation. In general, ROWs across prairie habitat require little, if any, maintenance because of the absence of trees. Disturbance to wetland habitats and stream crossings are avoided and would be limited to occasional tree trimming or removal to prevent contact with transmission lines. Current transmission line ROW maintenance practices favor native species and reduce the likelihood of adverse impacts to sensitive habitats (e.g., wetlands, streams) and any listed species that could

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A variety of terrestrial wildlife species occurs in the project area. Terrestrial mammals of the area include white-tailed deer (Odocoileus virginianus), coyote (Canis latrans), red fox (Vulpes fulva), eastern cottontail (Sylvilagus floridanus), muskrat (Ondatra zibethicus), and beaver (Castor canadensis) (IDNR 2003). Birds include Canada goose (Branta canadensis), mallard (Anas platyrhynchos), great blue heron (Ardea herodias), killdeer (Charadrius vociferus), red-tailed hawk (Buteo jamaicensis), American kestrel (Falco sparverius), northern harrier (Circus cyaneus), and red-winged blackbird (Agelaius phoeniceus).

Figures 3 and 4, and Table 2, provide information on the transmission line corridors included in the Dresden license renewal application environmental review.

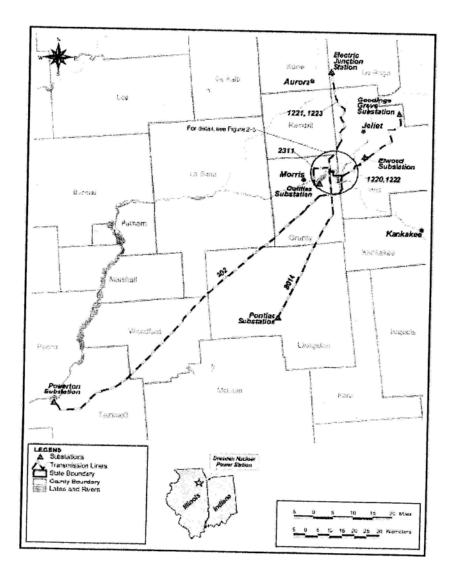
Description of Federally-Protected Species Occurring in the Project Area and Effects on

1. Mead's Milkweed (Asclepias meadii)

Mead's milkweed (Federally listed as threatened) formerly occurred throughout the eastern tallgrass prairie region of the central United States including Kansas, Missouri, Illinois, Iowa, Wisconsin, and Indiana (FWS 2003c). There are four remaining populations in Illinois, and these are located in the Shawnee National Forest in Saline County in southern Illinois. Restoration projects have introduced the Mead's milkweed to a site in Will County (Nelson 2003; FWS 2003c). The primary habitat of Mead's milkweed is mesic to dry mesic, upland tallgrass prairie (Herkert 1991; FWS 2003c).

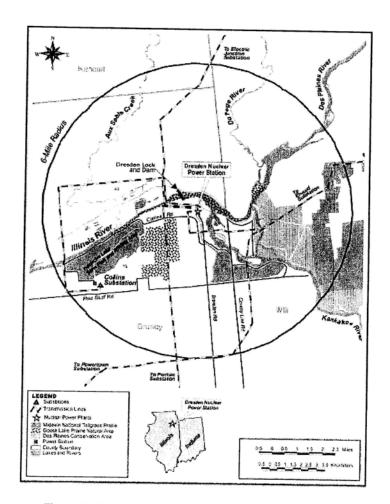
Although no populations of Mead's milkweed are known from the project area, it is possible that undeveloped portions of the Dresden site and associated transmission line ROWs could support this species, especially in those segments of the line that pass through natural areas, such as the Goose Lake Prairie State Natural Area, the Des Plaines Conservation Area, and the Midewin National Tallgrass Prairie. Undeveloped portions of the Dresden site that have the potential to support this species would not be affected by continued operations because no refurbishment activities that could result in habitat disturbance are planned (Exelon 2003). Current Exelon ROW management practices (Cunningham 2003) reduce the probability of impacts to these habitats and the species that are dependent on them. All activities in Goose Lake Prairie State Natural Area, Des Plaines Conservation Area, and Midewin National Tallgrass Prairie are planned in consultation with staff at these sites and must be approved prior to implementation. In general, transmission line ROWs across prairie habitat require little, if any, maintenance because of the absence of trees.

On the basis of the minimal anticipated impacts of ROW maintenance on potentially suitable habitat for the Mead's milkweed in the project area and the lack of habitat-disturbing activities on undeveloped portions of the Dresden site, the NRC staff concludes that continued operation of Dresden over the 20-year license renewal period is not likely to adversely affect the Mead's



3. Transmission Lines Associated with the Dresden Site.

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Figure 4. Transmission Line Detail for the Dresden Site.

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| | | | Approximate Corridor Length | | Corridor (Right-of- way) Width | | Estimated Corridor Area | |
|--|----------|-----|--------------------------------|-----------------------------|-----------------------------------|----------------------------------|----------------------------|-------|
| | Number | | | | | | | |
| Substation | of Lines | kV | km | (mi) | m | (ft) | ha | (ac) |
| Electric Junction (Lines 1221 and 1223) | 2 | 345 | 50 | 31.1 | 40 to 116 | 130 to 380 | ~420 | ~1050 |
| Goodings Grove (Lines 1220 and 1222) | 2 | 345 | 48 (20 to Elwood) | 29.8 (12.4 to Elwood) | 76 | 250 | 370 | 900 |
| Pontiac- Midpoint (Line 8014) | 1 | 345 | 70 | 43.3 | 44 | 145 | 310 | 760 |
| Powerton (Line 302) | 1 | 345 | 168 | 104.5 | 64 to 76 (mostly 76) | 210 to 250 (mostly 250) | ~1250 | ~3100 |
| Collins Station (Line 2311) | 1 | 345 | 19 | 11.8 | 46 | 150 | 90 | 220 |
| Total | 7 | | 355 | 220.5 | | | ~2440 | ~6030 |

- 11 - **Table 2.** Dresden Transmission Line Corridor Data

2. Decurrent False Aster (Boltonia decurrens)

The decurrent false aster (Federally listed as threatened) was originally widespread in alluvial prairie and marshland of the Illinois River flood plain (Keevin et al. 1990; Herkert 1991). It is most common in lowland areas where it appears to require disturbance for survival (Keevin et al. 1990), but most suitable habitats have been destroyed or affected by siltation or altered flooding regimes (Herkert 1991). Fifteen populations in eleven counties (including LaSalle, Tazewell, and Woodford counties) remain along the Illinois River (Herkert 1991), but the species is considered to potentially occur in any county bordering the Illinois River (Nelson 2003). No critical habitat has been designated for this species (Nelson 2003).

No populations of decurrent false aster are known to occur in the project area. Of the counties where the species is known to occur, only LaSalle, Tazewell, and Woodford Counties contain transmission line ROWs associated with Dresden; however, none of these is near the Illinois River flood plain where the species is found. The Development of these is near the Illinois

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River flood plain where the species is found. The Dresden site itself (Grundy County) is located on the Illinois River flood plain, but existing levees, channelization, and dams prevent the flooding disturbance that is thought to be needed for the species. No populations of decurrent false aster are known from Grundy County (Herkert 1991).

On the basis of this information, the NRC concludes that continued operation of Dresden over the 20-year license renewal period will have no effect on the decurrent false aster.

3. Leafy Prairie-Clover (Dalea foliosa)

The leafy prairie-clover (Federally listed as endangered) is found in two disjunct regions: the cedar glades of central Tennessee and northern Alabama, and in Illinois where it is now restricted to dolomite prairie on river terraces in seven counties in the northeastern portion of the State (DeMauro and Bowles 1996). Leafy prairie-clover is found only in open limestone cedar glades, limestone barrens, and dolomite prairies that have shallow soils over limestone or dolomite with frequent expanses of exposed bedrock (DeMauro and Bowles 1996). Historically, the species was widespread in Illinois but found only in mesic dolomite prairie habitat (Herkert 1991). It was thought to be extinct in Illinois until rediscovered in 1974 (Herkert 1991). These is no critical habitat designated for this species (Nelson 2003).

In the area potentially affected by the proposed action, the leafy prairie-clover is known to occur in Will County and potentially in LaSalle County (Nelson 2003). Known populations in Will County are found in dolomite prairie habitats in three county preserves along the western side of the Des Plaines River north of Joilet (DeMauro and Bowles 1996). These locations are at least 8 km (5 mi) from the nearest project-related transmission line ROW. The only project-related facility that occurs in LaSalle County is a portion of the Pontiac-Midpoint transmission line ROW that traverses the southeastern corner of the county. This portion of the transmission line ROW crosses agricultural land (row crops) exclusively.

On the basis of this information, the NRC concludes that continued operation of Dresden over the 20-year renewal period will have no effect on the leafy prairie-clover.

4. Lakeside Daisy (Hymenoxys herbacea)

The lakeside daisy is Federally listed as threatened. The species occurred historically in dry prairies, on outcrops of dolomite or limestone bedrock, and on sand and gravel terraces of major river valleys (DeMauro 1990; Nelson 2003). Lakeside daisy was known from a few dolomite prairies in Will County (along the Des Plaines River at Rockdale, Illinois) and a gravel bluff along the Illinois River in Tazewell County (Herkert 1991). The last known extant population in Illinois was destroyed in 1981, but the species has been reintroduced into Will and Tazewell Counties. Restored populations are threatened with vegetation encroachment,

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off-road-vehicle disturbance, and high herbivory rates (DeMauro 1990). Only one natural population remains, and it is located in an abandoned quarry in northern Ohio (DeMauro 1990). There is no critical habitat listed for this species in Illinois (Nelson 2003).

In the area potentially affected by the proposed action, the lakeside daisy is known to occur in Will and Tazewell Counties (Herkert 1991; Nelson 2003). Populations in Will County have been restored in dolomite prairie habitats in two county preserves along the western side of the Des Plaines River north of Joilet (DeMauro 1990). The species has also been reintroduced to the Illinois River bluff site (a county nature preserve) in Tazewell County where it was found historically (DeMauro 1990). These locations are at least 5 mi (8 km) from the nearest project-related transmission line.

On the basis of this information, the NRC concludes that continued operation of Dresden over the 20-year renewal period will have no effect on the lakeside daisy.

5. Prairie Bush Clover (Lespedeza leptostachya)

The prairie bush clover (Federally listed as threatened) is known to occur in Lee County, Illinois, but could potentially occur anywhere in suitable prairie remnants within the State (Nelson 2003). The species occurs on dry gravel and sand prairies and is rare throughout its range (Herkert 1991; Nelson 2003). Critical habitat has not been designated for this species.

Although no populations of prairie bush clover are known to occur the project area, it is possible that undeveloped portions of the Dresden site and associated transmission line ROWs could support this species, especially in those segments of the line that pass through natural areas, such as the Goose Lake Prairie State Natural Area, the Des Plaines Conservation Area, and the Midewin National Tallgrass Prairie. Undeveloped portions of the Dresden site that have the potential to support the prairie bush clover would not be affected by continued operations because no refurbishment activities that could result in habitat disturbance are planned (Exelon 2003). Current Exelon ROW-management practices (Cunningham 2003) reduce the probability of impacts to these habitats and the species that are dependent on them. All activities in Goose Lake Prairie State Natural Area, Des Plaines Conservation Area, and Midewin National Tallgrass Prairie are planned in consultation with staff at these sites and must be approved prior to implementation. In general, ROWs through prairie habitat require little, if any, maintenance

On the basis of the minimal anticipated impacts of ROW maintenance on potentially suitable habitat for the prairie bush clover in the project area and the lack of habitat-disturbing activities in undeveloped portions of the Dresden site, the NRC staff concludes that continued operation of Dresden over the 20-year renewal period is not likely to adversely affect the prairie bush clover. See the discussion above on Mead's milkweed regarding the potential for project

6. Eastern Prairie Fringed Orchid (Platanthera leucophaea)

The eastern prairie fringed orchid (Federally listed as threatened) prefers mesic to wet prairie habitat and potentially occurs throughout Illinois (Nelson 2003). It occurs in tallgrass silt-loam or sand prairies, sedge meadows, fens, and occasionally sphagnum bogs (Bowles 1999). It appears to be adapted to disturbance and occasionally colonizes early succession habitats or recolonizes previously occupied areas (Bowles 1999). The eastern prairie fringed orchid formerly occurred from eastern lowa, Missouri, and Oklahoma eastward across southern Wisconsin, northern and central Illinois, southern Michigan, northern Indiana and Ohio, and northwestern Pennsylvania to western New York and adjacent southern Ontario. Disjunct populations also occurred in New Jersey, Virginia, and Maine (Bowles 1999). In Illinois, the species has been eliminated from all but portions of the northeast by agriculture, drainage, and urban development (Herkert 1991; Bowles 1999). The eastern prairie fringed orchid is now known from only 22 populations in Illinois located in protected areas that include nature preserves, county forest preserves, and a State park (Herkert 1991).

- 14 -

Although no populations of eastern prairie fringed orchid are known from the project area, it is possible that undeveloped portions of the Dresden site and associated transmission line ROWs could support this species. On the basis of the minimal anticipated impacts of ROW maintenance on potentially suitable habitat for the eastern prairie fringed orchid in the project area and the lack of habitat-disturbing activities in undeveloped portions of the Dresden site, the NRC staff concludes that continued operation of Dresden over the 20-year renewal period is not likely to adversely affect the eastern prairie fringed orchid, especially in those segments of the line that pass through natural areas, such as the Goose Lake Prairie State Natural Area, the Des Plaines Conservation Area, and the Midewin National Tallgrass Prairie. Undeveloped portions of the Dresden site that have the potential to support the eastern prairie fringed orchid would not be affected by continued operations because no refurbishment activities that could result in habitat disturbance are planned (Exelon 2003). Current Exelon ROW-management practices (Cunningham 2003) reduce the probability of impacts to these habitats and the species that are dependent on them. All activities in Goose Lake Prairie State Natural Area, Des Plaines Conservation Area, and Midewin National Tallgrass Prairie are planned in consultation with staff at these sites and must be approved prior to implementation. In general, ROWs through prairie habitat require little, if any, maintenance because of the absence of

On the basis of the minimal anticipated impacts of ROW maintenance on potentially suitable habitat for the eastern prairie fringed orchid in the project area and the lack of habitat-disturbing activities in undeveloped portions of the Dresden site, the NRC staff concludes that continued operation of Dresden over the 20-year renewal period is not likely to adversely affect the eastern prairie fringed orchid.

7. Hine's Emerald Dragonfly (Somatochlora hineana)

The endangered Hine's emerald dragonfly is the only Federally listed aquatic species that occurs in any of the counties that contain the Dresden site or associated transmission line

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ROWs. This species occurs in nine sites in Will, Cook, and DuPage Counties (FWS 2001). Aquatic nymphs of this species are restricted to marsh, seep, and sedge-meadow habitats with slow-flowing water and thin soils over dolomite bedrock (FWS 2001). Adults are also found near these habitats. Populations of Hine's emerald dragonfly have been found in the lower Des Plaines River valley in northern Will County, but none has been found on or in the vicinity of the Dresden site (FWS 2001). Critical habitat has not been designated for this species.

The life history of the Hine's emerald dragonfly is similar to that of other dragonfly species and consists of two distinct phases: aquatic nymph and terrestrial aerial adult (FWS 2001). Both life stages are predaceous. Nymphs inhabit small streamlets for two to four years. After this period, nymphs begin to emerge as adults (late May in Illinois), and emergence continues for a population through the summer. Adults live for two to six weeks (FWS 2001).

In the area potentially affected by the proposed action, the Hine's emerald dragonfly is known from Will County. The species is known from six sites in Will County (four in nature preserves and two on privately owned land). These sites are along the Des Plaines River north of Joilet and are at least 8 km (5 mi) from the Dresden site and associated transmission line ROWs.

On the basis of this information, the NRC concludes that continued operation of Dresden over the 20-year renewal period will have no effect on the Hine's emerald dragonfly.

8. Eastern Massasauga (Sistrurus catenatus)

The eastern massasauga is a small rattlesnake that is declining throughout its range and is currently a candidate for Federal listing as threatened or endangered (Nelson 2003). The massasauga is usually found in or near wet areas including wetlands, wet prairie, and nearby woodland or shrub habitat (Nelson 2003). The species also uses dry old fields with goldenrod (*Solidago* spp.) and woody species, such as dogwood (*Cornus* spp.) or multiflora rose (*Rosa mulitflora*). Dry upland areas up to 2.4 km (1.5 mi) away from wet habitat are utilized during the summer (Nelson 2003).

The massasauga once occurred in the northern four-fifths of Illinois, but intensive farming and destruction of wetlands has decreased its habitat. In recent years, it has been found in Washington County in southern Illinois, Piatt County in east central Illinois, Knox County in western Illinois, and DuPage, Cook, and Will counties in northeast Illinois (Illinois State Museum 2003). In the area potentially affected by the project, the massasauga is known to occur only in Will County.

Although the eastern massasauga is not known to occur in the project area, it is possible that undeveloped portions of the Dresden site and associated transmission line ROWs could support this species, especially in those segments of the line that pass through natural areas, such as the Goose Lake Prairie State Natural Area, the Des Plaines Conservation Area, and the Midewin National Tallgrass Prairie. Undeveloped portions of the Dresden site that have the potential to support the eastern massasauga would not be affected by continued operations because no refurbishment activities that could result in habitat disturbance are planned (Exelon 2003). Current Exelon ROW-management practices (Cunningham 2003) reduce the probability of impacts to these habitats and the species that are dependent on them. All activities in Goose Lake Prairie State Natural Area, Des Plaines Conservation Area, and Midewin National Tallgrass Prairie are planned in consultation with staff at these sites and must be approved prior to implementation. In general, ROWs through prairie habitat require little, if any, maintenance because of the absence of trees.

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On the basis of the minimal anticipated impacts of ROW maintenance on potentially suitable habitat for the eastern massasauga in the project area and the lack of habitat-disturbing activities in undeveloped portions of the Dresden site, the NRC staff concludes that continued operation of Dresden over the 20-year license renewal period is not likely to adversely affect the eastern massasauga.

9. Bald Eagle (Haliaeetus leucocephalus)

The bald eagle is currently listed as threatened, but this species has been proposed for delisting. The species is listed as wintering and possibly breeding in Tazewell, Woodford, LaSalle, Grundy, and Will Counties, Illinois (Nelson 2003). Bald eagles nest in large trees near rivers and lakes. During the winter, eagles congregate near open water created by dam tailwaters, power plant effluent, and municipal and industrial discharge, or in power plant cooling ponds (Nelson 2003). The importance of these areas increases in colder winters when open water is not available elsewhere. Large trees near open water are favored for perching and night roosting. Critical habitat has not been designated for the bald eagle (Nelson 2003).

Exelon has not reported bald eagles on the Dresden site, but it is reasonable to assume that the species is an occasional winter visitor to open water bodies on and adjacent to the site. Bald eagles are not known to nest in the project area, and there are no known roosting concentrations in the area. In the winter, eagles may be attracted to open water areas in the vicinity of the Dresden site when other large water bodies are frozen. Water without ice cover provides foraging areas for the bald eagle, and the normal plant operations that maintain these open areas can be considered a benefit to eagles. Exelon does not anticipate refurbishment activities during the license renewal period that could result in any habitat disturbance or removal of potential roost trees. The NRC staff, therefore, concludes that continued operation of Dresden over the 20-year license renewal period is not likely to adversely affect the bald eagle.

10. Indiana Bat (Myotis sodalis)

The Indiana bat is known to occur in LaSalle County, Illinois, and could potentially occur statewide (Nelson 2003). The Blackball Mine, located in LaSalle County about 64 km (40 mi) west of the Dresden site and associated transmission line ROWs, is listed as critical habitat for the Indiana bat (FWS 1999; Nelson 2003). Indiana bats congregate for hibernation in only a

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few caves or mines within their range, and impacts at these hibernacula have been a major cause of this species' decline (FWS 1999).

During the summer, Indiana bats use a variety of habitats for roosting and foraging but frequent the corridors of small streams with well developed riparian woods (FWS 1999; Nelson 2003). The species forages for insects in the stream corridor; within the canopy of flood plain and upland forests; over old-fields, ponds, and pastures; and along the borders of agricultural fields and wooded fence rows (Nelson 2003). Indiana bats roost and rear young in trees. Preferred roost trees have exfoliating bark with space for bats to roost between the bark and the bole of the tree; to a limited extent, tree cavities and crevices also are used for roosting (FWS 1999). Maternity colonies use multiple roosts. Each colony has at least one (but there may be more than one) "primary" roost that is used by a majority of the bats most of the summer. Indiana bats tend to return to the same roosting area year after year (Nelson 2003).

Although the Indiana bat is not known to occur in the project area, it is possible that undeveloped portions of the Dresden site and associated transmission line ROWs could support the habitat of this species. It is unlikely that ROW maintenance would result in the removal of an Indiana bat roost tree because these ROWs have been maintained for several decades, and large trees suitable as roosts would not have become established within the ROWs. The ROWs could be used by Indiana bats for foraging, but no adverse impacts to foraging bats would be anticipated. Indiana bats could potentially use undeveloped portions of the Dresden site for foraging and roosting. Continued operations would not impact this species, however, because no refurbishment activities that could result in habitat disturbance are planned (Exelon 2003).

On the basis of the minimal anticipated impacts of ROW maintenance on potentially suitable habitat for the Indiana bat in the project area and the lack of habitat-disturbing activities in undeveloped portions of the Dresden site, the NRC staff concludes that continued operation of Dresden over the 20-year license renewal period is not likely to adversely affect the Indiana bat.

Conclusion

The NRC staff has reviewed the information on endangered and threatened species that could be affected by continued operation and maintenance of Dresden and its associated transmission lines and transmission line ROWs. No refurbishment or replacement of important structures, systems or components is currently planned by the applicant. Therefore, disturbance of protected species or their habitats on the Dresden site is not anticipated. Current transmission line ROW maintenance practices favor native species and reduce the likelihood of adverse impacts to sensitive habitats (e.g., wetlands, streams) and any species that may be present within the ROWs. Based on its evaluation, the NRC staff concludes for four of Federally listed species, the decurrent false aster (*Boltonia decurrens*), the leafy prairie-clover (*Dalea foliosa*), the lakeside daisy (*Hymenoxys herbacea*), and the Hine's emerald dragonfly (*Somatochlora hineana*), the renewal of the Dresden licenses will have "no effect." Also, for the Mead's milkweed (*Asclepias meadii*), the prairie bush clover (*Lespedeza*)

leptostachya), the eastern prairie fringed orchid (*Platanthera leucophaea*), the eastern massasauga (*Sistrurus catenatus*), the Indiana bat (*Myotis sodalis*), and the bald eagle (*Haliaeetus leucocephalus*), the NRC staff has determined that license renewal for Dresden may affect, but is not likely to adversely affect these six Federally listed species.

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References

Bowles, M. 1999. Eastern Prairie Fringed Orchid Platanthera leucophaea Recovery Plan. U.S. Fish and Wildlife Service. Ft. Snelling, Minnesota.

Cunningham, E. 2003. ComEd Transmission Vegetation Management Program.

DeMauro, M.M. 1990. *Lakeside Daisy* Hymenoxys acaulis var. glabra *Recovery Plan*. U.S. Fish and Wildlife Service. Twin Cities, Minnesota.

DeMauro, M.M., and M.L. Bowles. 1996. *Recovery Plan for the Leafy Prairie-Clover* (Dalea foliosa). U.S. Fish and Wildlife Service. Atlanta, Georgia.

Exelon Generation Company, LLC (Exelon). 2003. Applicant's Environmental Report—Operating License Renewal Stage Dresden Nuclear Power Station, Units 2 and 3. Warrenville, Illinois. January.

Herkert, J. 1991. Endangered and Threatened Species of Illinois: Status and Distribution. Volume 1: Plants. Illinois Endangered Species Protection Board. Springfield, Illinois.

Herkert, J. 1992. Endangered and Threatened Species of Illinois: Status and Distribution. Volume 2: Animals. Illinois Endangered Species Protection Board, Springfield, Illinois.

Illinois Department of Natural Resources (IDNR). 2003. Goose Lake Prairie State Natural Area. Accessed at <<u>http://dnr.state.il.us/lands/landmgt/parks/i%26m/east/</u> goose/home.htm#Natural> on March 7.

Illinois State Museum. 2003. *Eastern Massasauga*. Illinois State Museum, Springfield, III. Accessed at <<u>http://www.museum.state.il.us/muslink/prairie/htmls/popups/</u> reptiles_massasauga.html> on November 13.

Jury, K.R. 2002a. Letter from K.R. Jury, Exelon Generating Company, Warrenville, Illinois, to J. Millar, U.S. Fish and Wildlife Service, Rock Island, Illinois. Subject: "Dresden Nuclear Power Station Units 2 and 3 License Renewal: Request for Information on Threatened or Endangered Species." January 11.

Jury, K.R. 2002b. Letter from K.R. Jury, Exelon Generating Company, Warrenville, Illinois, to K. Shank, Illinois Department of Natural Resources, Springfield, Illinois. Subject: "Dresden

- 19 -

Nuclear Power Station Units 2 and 3 License Renewal: Request for Information on State-Listed Species and Important Habitats." February 22.

Keevin, T.M., J.E. Schwegman, B. Stebbings, T.E. Smith, and V.K. Wallace. 1990. Decurrent False Aster (Boltonia decurrens) Recovery Plan. U.S. Fish and Wildlife Service. Twin Cities, Minnesota.

Kuo, P.T. 2003a. Letter from P.T. Kuo, U.S. Nuclear Regulatory Commission, Washington, D.C., to RC Nelson, U.S. Fish and Wildlife Service, Rock Island, Illinois, Subject: "Request for Comments Concerning Dresden Nuclear Power Station Application for Operating License

Kuo, P.T. 2003b. Letter from P.T. Kuo, U.S. Nuclear Regulatory Commission, Washington, D.C., to RC Nelson, U.S. Fish and Wildlife Service, Rock Island, Illinois, Subject: "Expanded Scope of Dresden Nuclear Power Station Application for Operating License Renewal."

Millar, J. 2002. Letter from J. Millar, U.S. Fish and Wildlife Service, Rock Island, Illinois, to K.R. Jury, Exelon Generating Company, Warrenville, Illinois. Subject: "Dresden Nuclear Power Station Units 2 and 3 License Renewal: Request for Information on Threatened or Endangered

Nelson, RC 2003. Letter from R.C. Nelson, U.S. Fish and Wildlife Service, Rock Island, Illinois, to L. Wheeler, U.S. Nuclear Regulatory Commission, Washington, D.C., Subject: "Comments regarding Renewal of the Operating License for the Dresden Nuclear Power Station." September 15.

U.S. Fish and Wildlife Service (FWS). 1998. Endangered Species Facts: Pallid Sturgeon. Accessed at <<u>http://midwest.fws.gov/endangered/fishes/palld_fc.html</u>> on May 11, 2003.

U.S. Fish and Wildlife Service (FWS). 1999. Agency Draft Indiana Bat (Myotis sodalis) Revised

Recovery Plan. U.S. Fish and Wildlife Service. Fort Snelling, Minnesota.

U.S. Fish and Wildlife Service (FWS). 2001. Hine's Emerald Dragonfly (Somatochlora hineana) Recovery Plan. U.S. Fish and Wildlife Service. Fort Snelling, Minnesota.

U.S. Fish and Wildlife Service (FWS). 2003a. Illinois List of Threatened, Endangered, Proposed, and Candidate Species. Accessed at <http://midwest.fws.gov/Endangered/lists/state-il.html>, on March 10, 2003.

U.S. Fish and Wildlife Service (FWS). 2003b. County Distribution of Federally Listed Species

in Illinois. Accessed at <<u>http://midwest.fws.gov/RockIsland/ activity/endangrd/il list.htm</u>> on

- 20 -

U.S. Fish and Wildlife Service (FWS). 2003c. *Mead's Milkweed* (Asclepias meadii) *Recovery Plan.* U.S. Fish and Wildlife Service. Fort Snelling, Minnesota.

U.S. Nuclear Regulatory Commission (NRC). 2003. Generic Environmental Impact Statement for License Renewal of Nuclear Plants, Supplement 17 Regarding Dresden Nuclear Power Station, Units 2 and 3, Draft Report for Comment. December.



IN REPLY REFER TO

United States Department of the Interior

OFFICE OF THE SECRETARY Office of Environmental Policy and Compliance Custom House, Room 244 200 Chestnut Street Philadelphia, Pennsylvania 19106-2904

IDII FEB 27 IN 9: February 20,

ER 03/990

Michael T. Lesar Chief, Rules and Directives Branch U.S. Nuclear Regulatory Commission Mail Stop T6-D59 Washington, D.C. 20555-0001

Dear Mr. Lesar:

The U.S. Department of the Interior (Department) has reviewed the Generic Environmental Impact Statement (EIS) for License Renewal of Nuclear Plants, NUREG-1437, Draft Supplement 17 (dated December 2003), regarding Exelon Generation Company, LLC, Dresden Nuclear Power Station, Units 2 and 3, Grundy County, Illinois, and offers the following comments.

The subject license renewal does not involve any major construction, refurbishment, or physical alteration of the project area. The Generic EIS and Draft Supplement 17 adequately address the concerns of the Department regarding fish and wildlife resources. We concur with the preliminary conclusions of the U. S. Nuclear Regulatory Commission (NRC) staff with respect to the impacts of continued operations on these resources. The NRC staff has provided a Biological Assessment to the U.S. Fish and Wildlife Service (FWS), which concluded with a determination that the proposed action is not likely to adversely affect any federally listed threatened or endangered species. The FWS agrees with that determination and will be providing an official concurrence to the NRC under separate cover.

W. 1400 11 14 SPECIFIC COMMENTS

detailer a sub-1201 111 1 Page 2-42, line 31: The floodplain of the Illinois River and its contributing streams, the Des Plaines and the Kankakee, constitute a portion of the landscape that is capable of cultivation without the plow and that is occupied by riparian vegetation and fish and wetland wildlife populations. All predictive models of site location list the floodplain as a prime zone for archeological site location. While the landform and the location within the floodplain have a high potential to yield important archaeological resources, without survey data, it is difficult to

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predict the site significance and, thus, potential impacts. Likewise, past/current land disturbances may have jeopardized artifacts to an unknown degree; thus, activity in the flood plain may constitute an ongoing impact that has yet to be evaluated.

Page 2-43 line 16: Please add "Kaskaskia Illinois" Tribe.

Page 2-44 line 10: Please change to "Briscoe mounds and associated habitation site."

Page 2-44 line 12: Please correct. One of the mounds was erected around 1350, the other has never been excavated.

Please continue to include the Illinois and Michigan Canal National Heritage Corridor (NHC) in ...all related project correspondences. The NHC address is: Executive Director, I &M Canal NHC, 15701 South Independence Boulevard, Lockport, Illinois, 60441. If you have any questions regarding the NHC, please contact Ms. Phyllis Ellin, Executive Director, I&M Canal NHC, at 815-740-2047.

We appreciate the opportunity to provide these comments.

Sincerely,

Michael T. Chezik Regional Environmental Officer

 $H_{\rm D}$ UNITED STATES ENVIRONMENTAL PROTECTION AGENCY. · REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590 WAR BOARD IN 209 IMR The fight and a finite fighter of the first of the fighter and the first of the first of the first of the first Rules and Directives 的时候 化硫酸盐 机成合物 机热力的 FEB 2 4 2004 "你有最后,要不是不可能是不知 REPLY TO THE ATTENTION OF: \mathbf{r}_{i} se sije k 1.0 USNEC! 12/10/03 . . B-19J 68FL 68955 Chief, Rules Review and Directives Branch U.S. Nuclear Regulatory Commission Mail Stop T6-D59 Washington, D.C. 20555-0001 Generic Environmental Impact Statement for License Renewal of Nuclear Plant, Re: Supplement 17: Dresden Nuclear Power Station, Units 2 and 3, Draft Report, NUREG-1437, EIS No. 030549 Dear Sir or Madam: In accordance with Section 309 of the Clean Air Act and the National Environmental Policy Act (NEPA), the U.S. Environmental Protection Agency (EPA) has reviewed the Generic Environmental Impact Statement for License Renewal of Nuclear Plant, Supplement 17: Dresden Nuclear Power Station, Units 2 and 3 (Dresden Units 2 and 3), which is a draft report. The Nuclear Regulatory Commission (NRC) developed the Generic Environmental Impact Statement (GEIS) to streamline the license renewal process on the premise that environmental impacts of most nuclear power plant license renewals are similar, in most cases. NRC develops facilityspecific supplemental environmental impact statements (SEIS) for individual plants as the facilities apply for license renewal. EPA provided comments on the GEIS during its development process-for the draft version in 1992, and for the final version in 1996. The Dresden Nuclear Plant is located on the banks of the Illinois River (at the confluence of the Des Plaines and Kankakee Rivers) in Grundy County, Illinois. The plant has three units. Dresden Units 2 and 3 are operating nuclear reactors and the subject of the proposed Federal action. The other unit (Dresden Unit 1) was shut down in 1978 and decontaminated in 1984. Dresden Units 2 and 3 each produces an output of 2957 megawatts thermal, and each unit has a design rating for a net electrical power output of 912 megawatts. Each unit is refueled on a 24month cycle; this is done by refueling an alternate unit each year. The cooling system can operate in one of two modes. In the indirect open-cycle mode, once-through cooling water from the Kankakee River is used to remove heat from the main (turbine) condensers. The heated effluent is circulated through a cooling canal and pond and discharged to the Illinois River. In the closed-cycle mode, heated effluent is circulated through mechanical draft cooling towers, then recycled through the condensers with limited make-up water drawn from the Kankakee River. E-REDS = ADM -03 Printed on Recycled Paper Oal = D. Wheeler (DXW) Template - ADU-013

2 The proposed Federal action is renewal of the operating licenses for Dresden Units 2 and 3. The Exelon Generation Company, LLC has submitted a permit application to the NRC to extend the operating license for Dresden Units 2 and 3 for an additional 20 years. Currently, the operating licenses for Dresden Units 2 and 3 expire on December 22, 2009 and January 12, 2011, respectively. Based on our review of the Dresden draft SEIS, we have given the project an EC-2 rating. The "EC" means that we have environmental concerns with the proposed action, and the "2" means that additional information needs to be provided in the final SEIS. Our concerns relate to: Information provided on radiological impacts, 1. 2 Cooling water system impacts on aquatic organisms, 3. Thermal impacts, 4. Adequacy and clarity of the information provided, 5. Risk estimates, and 6. On-site waste storage. - We have enclosed our comments and the U.S. EPA rating system summary. If you have any questions or wish to discuss any aspect of the comments, please contact Newton Ellens of my staff at (312) 353-5562. Sincerely, G. Ellen Nentry Kenneth A. Westlake, Chief Environmental Planning and Evaluation Branch Office of Strategic Environmental Analysis Enclosures

NUREG-1437, Supplement 17

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| | U.S. EPA Comments on | |
| | Generic Environmental Impact Statement for License Renewal of Nuclear Plant, | |
| | Supplement 17: Dresden Nuclear Power Station, Units 2 and 3, Draft Report, | , |
| | NUREG-1437 | |
| 1. | We are concerned about the level of information provided in the draft supplemental | |
| | environmental impact statement (SEIS) on radiological impacts. According to the SEIS, | |
| • | Exelon Generation Company, LLC (Exelon), the applicant for the operating licenses, has | |
| • | conducted a radiological environmental monitoring program (REMP) around the Dresden | |
| | Nuclear Power Plant since 1974. Through this program, Exelon has monitored and | |
| | documented radiological impacts to workers, the public, and the environment. The draft | |
| | SEIS states: | |
| | The REMP includes monitoring of the waterborne environment (ground/well, drinking | |
| ١. | water, surface water, sediments and dredging spoils), ingestions pathways (milk, fish and | |
| •• | vegetation), direct radiation (gamma dose at thermoluminescent dosimeter [TLD] | |
| | locations), and atmospheric environment (airborne radioiodine, particulates, gross beta, | |
| , | and gamma) | |
| | | |
| . 2 | The SEIS cites two annual reports which summarizes information from the REMP, but it | |
| · 2 | does not contain this summary information itself. Summary information about radiation | |
| | from the Dresden plant and associated exposure pathways in the environment is relevant in determining radiological impacts from the continued operation of Dresden Units 2 and 3. | |
| ż | We are unable to make such a determination from the SEIS as it is written. Therefore, we | |
| U 15 | suggest that the final SEIS include current annual summary information about radiological | |
| | impacts from the REMP. | |
| | | |
| 2. | We are concerned about the amount of organisms pinned against or drawn into Dresden's | |
| | cooling water systems. Under a final rule signed by U.S. EPA on February 16, 2004, certain | |
| | power plants with cooling water systems are required to (1) reduce the number of organisms | |
| | pinned against water intake screens by 80 to 95 percent, and (2) reduce the number of organisms which are sucked into the cooling water system by 60 to 90 percent. Since the | . · · |
| | draft SEIS was written before the final rule was signed, the draft SEIS couldn't address how | |
| - | the Dresden plant will comply with this new regulation. However, the final SEIS should | |
| | indicate the applicability of the final rule to the Dresden plant, and the modifications | |
| | planned by the applicant to comply with the rule. | |
| | We are served about all with from the David or the dist over the data to the the | |
| 3. | We are concerned about effluents from the Dresden plant which exceeded National Pollutant Discharge Elimination System (NPDES) permit limits on temperature. According to the | |
| | draft SEIS, Exelon received one provisional variance from permit limits in 2001 and two | |
| | provisional variances in 1999. The draft SEIS states that the two 1999 provisional variances | |
| | were the result of an extended heat wave and drought. Exelon conducted biological studies | |
| | to determine the impact of the provisional variances on fish and other aquatic life. The draft | |
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SEIS states that there were no adverse impacts on these organisms; the only effect was a change in fish distribution during the higher temperature periods. Based on this information, the draft SEIS characterizes the thermal impacts caused by the provisional variances as SMALL. However, we think that the draft SEIS does not adequately discuss the potential for future exceedances of NPDES temperature limits, and the impacts of these exceedances. Also, the draft SEIS does not evaluate the possible cumulative impact of future temperature exceedances combined with future droughts and/or heat waves. The final SEIS should discuss these issues. Section 2.2.4, Air Quality, page 2-24, second paragraph . The last sentence has a temperature listed as "B11°C" instead of -11°C. This needs to be corrected to reduce the possibility of confusion. Section 2.2.7, Radiological Impacts, page 2-31, last paragraph. The references to the environmental standards need to be complete citations, including title of the rule or regulation, along with the basic standard for comparison. This will reduce the time needed to look up these citations and verify values that are cited in the text. 6: Section 3.0 Environmental Impacts of Refurbishment, page3-2, Table 3-1. Under the section on Human Health, specific information supporting any assertions that this area "needs no ÷. further evaluation" needs to be presented or more completely cited and described. Section 4.3, Radiological Impacts of Normal Operations, page 4-25, paragraph 5. The 7: specific values for exposure need to be provided in addition to the complete citation of the location of this information. This will help to provide the information more clearly than a citation only, that then must be referred to allow verification of the standard being cited. Section 4.8.3, Cumulative Radiological Impacts, page 4-48, Paragraph 1. Information or procedures used to generate values to support the assertions in this section need to be provided in a clearer manner to reduce the possibility of misunderstandings and to make explicit the reasoning on procedures to reach these conclusions. second in a Section 5.2.2, Estimate of Risk: Page 5-5 states "The baseline core damage frequency (CDF) for Dresden is approximately 1.9 x 104 per year, based on internally-initiated events. Exelon did not include the contribution to CDF from external events in these estimates even though the risk from external events is significantly higher for Dresden than risk from internal events." We recommend evaluating and presenting risk estimates from both internal and external events. In addition, given the draft SEIS statements referenced above, effects of external events should be included in the risk decision considerations, as necessary, to get an accurate portrayal of the risk of the licensing renewal. If the final SEIS does not incorporate external

events into risk calculations or risk decisions, it should provide a rationale for using internally-initiated events only.

10. Section 6.1, The Uranium Fuel Cycle, page 6-2. Under the bullet point for Off-site radiological impacts (individual effects from other than disposal of spent fuel and high level waste), no consideration appears to be given to the potential long-term storage of the spent fuel and high-level waste materials on-site until such time as a permanent facility is finally licensed and begins to accept these materials for disposal. A reference to other sections or documents where this evaluation may have been included should be provided here; otherwise, the issue needs to be considered and evaluated.

11. Section 6.1, The Uranium Fuel Cycle, page 6-8 Under the bullet point for On-Site Spent ______. Fuel. A more thorough evaluation for the volume of spent fuel expected to be generated during the additional licensed time needs to be provided along with more specific information as to site-specific circumstances that may impair or improve the risk values for potential exposures to this spent fuel.

- 12. Section 7.1, *Decommissioning*, page 7-2, Under bullet point <u>Radiation Doses</u>. As the GEIS is based on a forty-year licensing period, an extension of another twenty years would have an impact that needs to be quantified and reported. This information should be included specifically in the final SEIS as part of the risk that would be associated with the license extension.
- 13. Section 8.1, No-Action Alternative, page 8-4, under the bullet point <u>Human Health</u>. The actual value representing the cited percent value should be specifically provided in addition to the citation. This will help to reduce unnecessary additional research, except for value verifications, and potential misunderstandings or confusion as to the actual value(s) being specified.

Section 8.2.1.1, Closed-Cycle Cooling System, page 8-21, under the bullet <u>Uranium and thorium</u>. A better comparison or quantification of the relative concentrations of the uranium and thorium to the background levels need to be provided. As is, this presentation can lead. to misunderstanding and confusion.

- 15. Section 8.2.1.1, Closed-Cycle Cooling System, page 8-22, Under bullet point <u>Human Health</u>. Any dose estimate that would have the potential to fall in the range of 10⁴ to 10⁴ or greater needs to be specifically evaluated for potential regulatory requirements or risk impacts to the public health. This should be estimated conservatively using the data that is currently available or that can be logically extrapolated from currently available information.
- Section 8.2.3.1, Closed -Cycle Cooling System, page 8-48, Under bullet point Waste impacts need to be specified rather than merely referenced to provide a clearer

× • understanding of the risk determination made in this section of the document. 17. Section 8.2.3.1, *Closed -Cycle Cooling System*, page 8-48, Under bullet point <u>Human</u> <u>Health</u>. Human-health impacts need to be specified rather than merely referenced to provide a clearer understanding of the risk determination in this section of the document. 18. Appendix D, Organizations Contacted, page D-1,D-2. The United States Environmental Protection Agency was not contacted as one on the cognizant environmental agencies. Please provide the rationale for this procedure.

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adore We ask.

SUMMARY OF RATING DEFINITIONS AND FOLLOW UP ACTION

Environmental Impact of the Action

LO-Lack of Objections

The EPA review has not identified any potential environmental impacts requiring substantive changes to the proposal. The review may have disclosed opportunities for application of mitigation measures that could be accomplished with no more than minor changes to the proposal.

EC-Environmental Concerns

The EPA review has identified environmental impacts that should be avoided in order to fully protect the environment. Corrective measures may require changes to the preferred alternative or application of mitigation measures that can reduce the environmental impacts. EPA would like to work with the lead agency to reduce these impacts.

EO-Environmental Objections

The EPA review has identified significant environmental impacts that must be avoided in order to provide adequate protection for the environment. Corrective measures may require substantial changes to the preferred alternative or consideration of some other project alternative (including the no action alternative or a new alternative). EPA intends to work with the lead agency to reduce these impacts.

EU-Environmentally Unsatisfactory

The EPA review has identified adverse environmental impacts that are of sufficient magnitude that they are unsatisfactory from the standpoint of public health or welfare or environmental quality. EPA intends to work with the lead agency to reduce these impacts. If the potential unsatisfactory impacts are not corrected at the final EIS sate, this proposal will be recommended for referral to the CEQ.

Adequacy of the Impact Statement

Category 1-Adequate

The EPA believes the draft EIS adequately sets forth the environmental impact(s) of the preferred alterative and those of the alternatives reasonably available to the project or action. No further analysis or data collecting is necessary, but the reviewer may suggest the addition of clarifying language or information.

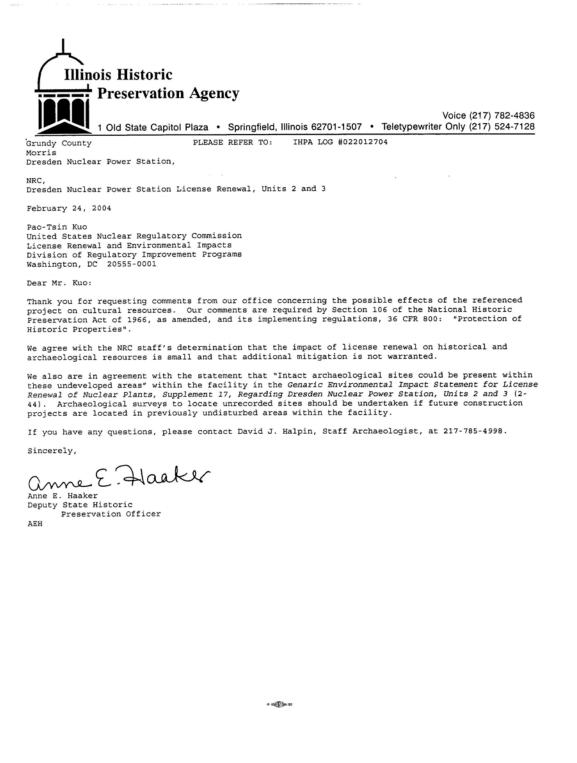
Category 2-Insufficient Information

The draft EIS does not contain sufficient information for the EPA to fully assess the environmental impacts that should be avoided in order to fully protect the environment, or the EPA reviewer has identified new reasonably available alternatives that are within the spectrum of alternatives analyzed in the draft EIS, which could reduce the environmental impacts of the action. The identified additional information, data, analyses, or discussion should be included in the final EIS.

Category 3-Inadequate

EPA does not believe that the draft EIS adequately assesses potentially significant environmental impacts of the action, or the EPA reviewer has identified new, reasonably available alternatives that are outside of the spectrum of alternatives analyzed in the draft EIS, which should be analyzed in order to reduce the potentially significant environmental impacts. EPA believes that the identified additional information, data analyses, or discussions are of such a magnitude that they should have full public review at a draft stage. EPA does not believe that the draft EIS is adequate for the purposes of the NEPA and/or Section 309 review, and thus should be formally revised and made available for public comment in a supplemental or revised draft EIS. On the basis of the potential significant impacts involved, this proposal could be a candidate for referral to the CEQ.

From EPA Manual 1640 Policy and Procedures for the Review of the Federal Actions Impacting the Environment



NUREG-1437, Supplement 17



United States Department of the Interior

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FWS/RIFO

IN REPLY REFER

March 11, 2004

United States Nuclear Regulatory Commission Attn: Pao-Tsin Kuo, Program Director License Renewal and Environmental Impacts Division of Regulatory Improvement Programs Office of Nuclear Reactor Regulation Washington, D.C. 20555-0001

Dear Pao-Tsin Kuo:

This is in response to the Biological Assessment (BA) for the proposed Dresden Nuclear Power Station license renewal which was received in our office on February 13, 2004. The BA references ten species which are listed as either federally threatened or endangered under the Endangered Species Act of 1973.

The following federally listed species are covered under the referenced BA: Endangered leafy prairie clover (*Dalea foliosa*), Hine's emerald dragonfly (*Somatochlora hineana*), Indiana bat (*Myotis sodalis*), Threatened Mead's milkweed (*Asclepias meadii*), decurrent false aster (*Boltonia decurrens*), lakeside daisy (*Hymenoxys herbacea*), prairie bush clover (*Lespedeza leptostachya*), eastern prairie fringed orchid (*Platanthera leucophaea*), bald eagle (*Haliaeetus leucocephalus*), Candidate eastern massasauga rattlesnake (*Sistrurus catenatus*).

As outlined in the BA, the Nuclear Regulatory Commission (NRC) has made a determination of 'no effect' for decurrent false aster, leafy prairie-clover, lakeside daisy, and Hine's emerald dragonfly. NRC has also made a determination of 'not likely to adversely affect' for Mead's milkweed, prairie bush clover, eastern prairie fringed orchid, eastern massasauga rattlesnake, Indiana bat, and the bald eagle.

Based on existing information and that which was provided in the BA, we concur with your findings that the proposed project will have no effect and not likely to adversely effect the respective federally listed endangered species. Should the project be modified or new information indicate endangered species may be affected, consultation should be initiated.

Pao-Tsin Kuo

This letter provides comments under the authority of and in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.); and the Endangered Species Act of 1973, as amended. If you have any questions about our comments or recommendations please contact Kraig McPeek of my staff at 309-793-5800, ext. 210.

Sincerely

Richard C. Nelson

Supervisor

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