

**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
ENVIRONMENTAL INFORMATION**

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COE	=	U.S. Army Corps of Engineers
CEG	=	Constellation Energy Group – Nine Mile Point Nuclear Station
CNS	=	Constellation Nuclear Station, Inc.
DEC	=	New York State Department of Environmental Conservation
EPA	=	U.S. Environmental Protection Agency
OPRHP	=	New York State Office of Parks, Recreation, and Historic Preservation

**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
ENVIRONMENTAL INFORMATION**

received 8/7/03



New York State Office of Parks, Recreation and Historic Preservation
Historic Preservation Field Services Bureau
Peebles Island, PO Box 189, Waterford, New York 12188-0189

518-237-8643

August 1, 2003

Carla M. Logan
2200 Defense Highway
Suite 405
Crofton, Maryland 21114

Dear Ms. Logan:

RE: NRC
CNS-02-154
Nine Mile Point Units 1 & 2
License Renewal
Town of Scriba, Oswego County
03PR0532

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). The SHPO has reviewed this project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended. Currently, there are no known archaeological sites within your project area. However, SHPO considers the project area sensitive for cultural resources because of its environmental setting. Therefore, it is recommended that SHPO be consulted prior to any construction projects including work within existing power line corridors.

If you have any questions, I can be reached at ext. 3280.

Sincerely,

Historic Preservation Program Specialist

An Equal Opportunity/Affirmative Action Agency
♻️ printed on recycled paper

**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
ENVIRONMENTAL INFORMATION**

P.O. Box 63
Lycoming, New York 13093



Nine Mile Point
Nuclear Station

February 28, 2004
NMPE 0401

Ms. Bernadette Castro
Commissioner
New York State Office of Parks, Recreation and Historic Preservation
20th Floor
Agency Building #1
Empire State Plaza
Albany, NY 12238

Dear Ms. Castro:

SUBJECT: Environmental Review for Nine Mile Point Nuclear Station License Renewal Project

With this letter, Nine Mile Point Nuclear Station, LLC (NMPNS) requests your input to the Nine Mile Point Nuclear Station (NMP) license renewal environmental review. NMPNS, with the assistance of Constellation Nuclear Services, Inc., is currently preparing applications for submittal to the U.S. Nuclear Regulatory Commission (NRC) to renew the operating licenses for the two nuclear power generating units at NMP, located in Oswego County, New York. You are likely aware that the operating licenses for several U.S. nuclear power plants have been successfully renewed, and that applications for license renewal for several other plants have been submitted to the NRC for review. Successful renewal would extend the NMP operating licenses for an additional 20 years; i.e., until 2029 and 2046 for Units 1 and 2, respectively.

In addition to detailed safety reviews, the license renewal process involves a thorough review of potential environmental impacts by NMPNS and the NRC in accordance with provisions of the National Environmental Policy Act (NEPA). The attached fact sheet provides an overview of the process and associated environmental review activities for NMP. In brief, the NRC has prepared a generic environmental impact statement (GEIS) that addressed environmental impacts of license renewal on the basis of a review of plants nationwide. Detailed environmental review for individual plants such as NMP includes preparation of an environmental report (ER) by the applicant and a site-specific supplement to the GEIS by the NRC. These latter documents must include impact assessments for site-specific environmental issues that were not resolved generically by the NRC in the GEIS. They also must identify any known "new and significant information," i.e., potentially significant environmental issues or impacts not recognized as such by the NRC in the GEIS, and the NRC's codified findings from the GEIS (10 CFR 51.53). In accordance with NEPA, the NRC's process for developing the site-specific supplements includes substantial opportunity for participation by agencies and the public, including the opportunity to formally comment on the scope of the NRC's site-specific supplement to the GEIS and the adequacy of that document.

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NMPE 0401

Nonetheless, the NMP License Renewal Environmental Review Team would appreciate your early and active participation in the license renewal environmental review process for NMP. In particular, we would welcome any questions or concerns your agency has in regards to the environmental implications of NMP license renewal, and any information that your agency may consider to be potentially "new and significant." These efforts will help ensure that the ER we prepare is complete. In this regard, we would be pleased to meet with your agency representative(s) to discuss the NMP license renewal environmental review in detail.

Please address your agency's interest in a meeting, and any questions or concerns about the environmental review to:

Kent Stoffle
Nine Mile Point Nuclear Station, LLC
348 Lake Road
Oswego, NY 13126
Tel.: 315-349-1364
Email: kent.stoffle@constellation.com

Thank you on behalf of NMPNS and the NMP License Renewal Environmental Review Team.

Sincerely,



William C. Holston
Manager, Engineering Services

WCH/KES/bjh
Attachment

**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
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**AN OVERVIEW OF THE
LICENSE RENEWAL ENVIRONMENTAL REVIEW PROCESS
FOR THE NINE MILE POINT NUCLEAR STATION**

BACKGROUND

Nine Mile Point Nuclear Station, LLC (NMPNS) operates the Nine Mile Point Nuclear Station (NMP), a two-unit nuclear power plant located on approximately 900 acres situated on Lake Ontario in the Town of Scriba, Oswego County, New York. NMPNS, a wholly-owned subsidiary of Constellation Energy of Baltimore, Maryland owns 100% of NMP Unit 1 and 82% of NMP Unit 2. The Long Island Power Authority (LIPA) owns the remaining 18% of NMP Unit 2. Net electrical capacity is 615 and 1,144 megawatts electric (MWe), respectively, for Units 1 and 2 for a total net output of 1759 MWe. NMP Unit 1 has a once-through cooling system. NMP Unit 2 features a closed-cycle cooling system using a natural draft cooling tower for the circulating water system, while the service water system is once through with a portion of the flow recirculated to provide make-up water for evaporative losses from the cooling tower. The water for these systems is withdrawn from and discharged back to Lake Ontario. Three single circuit 345-kV transmission lines transmit power from the two NMP switchyards to the transmission grid. Two of these lines connect to the Scriba Substation, located about 2,000 feet southeast of the switchyards. The third line extends approximately 26 miles southeast to the Clay Substation.

The initial 40-year operating licenses for NMP Unit 1 and NMP Unit 2 expire in 2009 and 2026, respectively. In keeping with continued efforts to ensure a safe, reliable, and economical supply of energy to its customers, NMPNS plans to submit applications to the U.S. Nuclear Regulatory Commission (NRC) in May 2004 for renewed licenses that would authorize operation of the units for up to 20 years beyond their current license expiration dates, i.e., until 2029 and 2046, respectively.

The NRC's license renewal application process involves a thorough technical evaluation of plant systems, structures, and components to assess the effects of aging; and development of measures to manage aging effects to ensure continued safe operation through the period of extended operation. In accordance with the National Environmental Policy Act (NEPA), it also involves an assessment of potential environmental impacts associated with extended operation of the plant; major plant refurbishments, if any, within the scope of license renewal; and associated transmission lines considered within the scope of license renewal.

The NEPA process provides substantial opportunities for input from stakeholders, including federal, state, and local resource agencies concerned with resources potentially affected by extended operation and associated major refurbishments, if any. In addition, the NRC is specifically obligated to consult with the U.S. Fish and Wildlife Service, the New York State (NYS) Historic Preservation Office, and other potentially affected agencies regarding potential impacts to threatened or endangered species and cultural resources, respectively.

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NMPNS prepared this overview of the license renewal environmental review process to help agency representatives become familiar with this process and facilitate their active participation. Additionally, more detailed information is available from the NRC's license renewal website (<http://www.nrc.gov/reactors/operating/licensing/renewal.html>).

THE LICENSE RENEWAL ENVIRONMENTAL REVIEW PROCESS

The NRC requires that applications for renewal of nuclear power plant operating licenses include an environmental report (ER) that addresses the potential environmental impacts of license renewal and alternatives to license renewal. To improve the efficiency of the environmental review process for these applications, NRC prepared and issued a generic environmental impact statement (GEIS), *Generic Environmental Impact Statement for the License Renewal of Nuclear Power Plants* (i.e., NUREG-1437) and amended its environmental protection regulations at 10 CFR 51, Subpart A, based on the analyses reported therein. In the GEIS, the NRC identified and evaluated 92 issues representing a full range of potential environmental impacts that could result from license renewal, including impacts from any needed plant refurbishment and impacts from plant operation beyond the current 40-year operating license term. The NRC designated 69 of the issues as Category 1, based on the following criteria:

- a. the impacts associated with the issue apply either to all plants or to plants having a specific cooling system or other specified plant or site characteristic;
- b. a single significance level (i.e., small, medium, or large) has been assigned to the impacts; and
- c. additional plant-specific mitigation measures were likely to not be sufficiently beneficial to warrant implementation.

Environmental impacts associated with these Category 1 issues were thus identified, analyzed, and resolved in the GEIS. However, twenty-one (21) of the issues could not meet one or more of the Category 1 criteria and were classified as Category 2 issues. Because these Category 2 issues could not be generically resolved, the NRC requires that they be addressed on a site-specific basis in the applicant's ER [see 10 CFR 51.53(c) and associated Appendix B, Table B-1]. The NRC also requires that applicants identify in the ER any "new and significant information" regarding the environmental impact of license renewal of which the applicant is aware to ensure thorough analysis of all potential environmental impacts associated with license renewal. Such information includes potentially significant environmental issues that the NRC did not consider in the GEIS and/or information that may lead to a different conclusion than was documented in the GEIS and codified in Table B-1 of the NRC's regulations, as cited above. In the course of developing the ER, applicants for a renewed operating license routinely consult with resource agencies. These consultations are undertaken to familiarize the agencies with the project, identify agency concerns, and obtain pertinent resource information, including any new and potentially significant information, as needed to ensure a complete and accurate application.

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The NRC addresses the Category 2 issues, two of the 92 issues that were unresolved in the GEIS and not categorized (environmental justice and chronic effects of electromagnetic fields on human health), and any new and significant issues in a site-specific Supplemental Environmental Impact Statement (SEIS) to the GEIS, which it prepares on the basis of information submitted by the applicant in the ER and its own independent evaluations.

In preparing the SEIS, the NRC:

- 1) Solicits stakeholder input in the media and at public meetings to finalize the SEIS scope.
- 2) Consults with federal, state and local resource and planning agencies to determine agency concerns and obtain additional information.
- 3) Prepares a Draft SEIS on the basis of independent analysis, using input from the applicant, agencies, and the public.
- 4) Solicits stakeholder comments on the Draft SEIS in the media and at public meetings.
- 5) Prepares the Final SEIS on the basis of comments received.

The GEIS and SEISs published for nuclear plants that have been issued or have applied for renewed operating licenses are available from the NRC as NUREG-1437 and associated supplements at <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/>. NRC regulations, including NRC's conclusions regarding each of the 92 license renewal environmental issues, are readily available at <http://www.nrc.gov/reading-rm/doc-collections/cfr/>.

ENVIRONMENTAL REVIEW ACTIVITIES FOR NMP

NMPNS is in the process of preparing the license renewal application, of which the ER is a part. NMPNS welcomes the opportunity to meet with interested agencies in late February to March to better familiarize them with the NRC license renewal process and the NMP license renewal project, and to obtain agency input. As a matter of statutory obligation or practice, the NRC is expected to request informal consultations with some agencies as they prepare the SEIS (e.g., NYS Department of Environmental Conservation, U.S. Fish and Wildlife Service, State Historic Preservation Office, NYS Department of State). Consequently, NMPNS requests written input from these agencies to be received by March 26, 2004 to include in the ER and facilitate these later consultations with the NRC.

The ER will address applicable site-specific environmental issues related to extended operation of NMP and other appropriate topics as specified in 10 CFR 51.53(c), including:

- applicable Category 2 issues, including potential impact on water use, ecological resources, land use, and socioeconomics
- environmental justice
- new and significant issues, if any
- alternatives to license renewal (e.g., generation alternatives)

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The NRC will establish a schedule for SEIS preparation and related activities once the application for NMP has been submitted. However, assuming a submittal date of late May 2004, NMPNS anticipates that scoping and draft SEIS preparation will be initiated in late 2004 and the final SEIS will be completed by late 2005 to early 2006.

**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
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P.O. Box 63
Lycoming, New York 13093



Nine Mile Point
Nuclear Station

February 23, 2004
NMPE 0398

Mr. Kenneth Lynch
Regional Director
New York State Department of Environmental Conservation
Region 7
615 Erie Blvd., West
Syracuse, NY 13204-2400

SUBJECT: Environmental Review for Nine Mile Point Nuclear Station License Renewal Project

Dear Mr. Lynch:

With this letter, Nine Mile Point Nuclear Station, LLC (NMPNS) requests your input to the Nine Mile Point Nuclear Station (NMP) license renewal environmental review. NMPNS, with the assistance of Constellation Nuclear Services, Inc., is currently preparing applications for submittal to the U.S. Nuclear Regulatory Commission (NRC) to renew the operating licenses for the two nuclear power generating units at NMP, located in Oswego County, New York. You are likely aware that the operating licenses for several U.S. nuclear power plants have been successfully renewed, and that applications for license renewal for several other plants have been submitted to the NRC for review. Successful renewal would extend the NMP operating licenses for an additional 20 years; i.e., until 2029 and 2046 for Units 1 and 2, respectively.

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NMPE 0398

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Please address your questions or concerns about the environmental review to:

Kent Stoffle
Nine Mile Point Nuclear Station, LLC
348 Lake Road
Oswego, NY 13126
Tel.: 315-349-1364
Email: kent.stoffle@constellation.com

Thank you on behalf of NMPNS and the NMP License Renewal Environmental Review Team.

Sincerely,



William C. Holston
Manager, Engineering Services

WCH/KES/bjh
Attachment

cc: Kent Stoffle, NMPNS
Peter Mazzaferro, NMPNS
Carla Logan, CGG Environmental Services
David Dellario, Constellation Nuclear Services, Inc.

**NINE MILE POINT NUCLEAR STATION
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P.O. Box 63
Lycoming, New York 13093



Nine Mile Point
Nuclear Station

February 28, 2004
NMPE 0400

Mr. Paul G. Leuchner
Chief, Regulatory Branch
United States Army Corps of Engineers
Buffalo District Office
1776 Niagara Street
Buffalo, NY 14207-3199

Dear Mr. Leuchner:

SUBJECT: Environmental Review for Nine Mile Point Nuclear Station License Renewal Project

With this letter, Nine Mile Point Nuclear Station, LLC (NMPNS) requests your input to the Nine Mile Point Nuclear Station (NMP) license renewal environmental review. NMPNS, with the assistance of Constellation Nuclear Services, Inc., is currently preparing applications for submittal to the U.S. Nuclear Regulatory Commission (NRC) to renew the operating licenses for the two nuclear power generating units at NMP, located in Oswego County, New York. You are likely aware that the operating licenses for several U.S. nuclear power plants have been successfully renewed, and that applications for license renewal for several other plants have been submitted to the NRC for review. Successful renewal would extend the NMP operating licenses for an additional 20 years; i.e., until 2029 and 2046 for Units 1 and 2, respectively.

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NMPE 0400

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Please address your agency's interest in a meeting, and any questions or concerns about the environmental review to:

Kent Stoffle
Nine Mile Point Nuclear Station, LLC
348 Lake Road
Oswego, NY 13126
Tel.: 315-349-1364
Email: kent.stoffle@constellation.com

Thank you on behalf of NMPNS and the NMP License Renewal Environmental Review Team.

Sincerely,



William C. Holston
Manager, Engineering Services

WCH/KES/bjh
Attachment

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The NEPA process provides substantial opportunities for input from stakeholders, including federal, state, and local resource agencies concerned with resources potentially affected by extended operation and associated major refurbishments, if any. In addition, the NRC is specifically obligated to consult with the U.S. Fish and Wildlife Service, the New York State (NYS) Historic Preservation Office, and other potentially affected agencies regarding potential impacts to threatened or endangered species and cultural resources, respectively.

**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
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- a. the impacts associated with the issue apply either to all plants or to plants having a specific cooling system or other specified plant or site characteristic;
- b. a single significance level (i.e., small, medium, or large) has been assigned to the impacts; and
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Environmental impacts associated with these Category 1 issues were thus identified, analyzed, and resolved in the GEIS. However, twenty-one (21) of the issues could not meet one or more of the Category 1 criteria and were classified as Category 2 issues. Because these Category 2 issues could not be generically resolved, the NRC requires that they be addressed on a site-specific basis in the applicant's ER [see 10 CFR 51.53(c) and associated Appendix B, Table B-1]. The NRC also requires that applicants identify in the ER any "new and significant information" regarding the environmental impact of license renewal of which the applicant is aware to ensure thorough analysis of all potential environmental impacts associated with license renewal. Such information includes potentially significant environmental issues that the NRC did not consider in the GEIS and/or information that may lead to a different conclusion than was documented in the GEIS and codified in Table B-1 of the NRC's regulations, as cited above. In the course of developing the ER, applicants for a renewed operating license routinely consult with resource agencies. These consultations are undertaken to familiarize the agencies with the project, identify agency concerns, and obtain pertinent resource information, including any new and potentially significant information, as needed to ensure a complete and accurate application.

**NINE MILE POINT NUCLEAR STATION
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ENVIRONMENTAL REVIEW ACTIVITIES FOR NMP

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**NINE MILE POINT NUCLEAR STATION
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**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
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P.O. Box 63
Lycoming, New York 13093



Nine Mile Point
Nuclear Station

February 28, 2004
NMPE 0403

Ms. Jane Kenny
Regional Administrator
United States Environmental Protection Agency
Region 2
290 Broadway
New York, NY 10007-1866

Dear Ms. Kenny:

SUBJECT: Environmental Review for Nine Mile Point Nuclear Station License Renewal Project

With this letter, Nine Mile Point Nuclear Station, LLC (NMPNS) requests your input to the Nine Mile Point Nuclear Station (NMP) license renewal environmental review. NMPNS, with the assistance of Constellation Nuclear Services, Inc., is currently preparing applications for submittal to the U.S. Nuclear Regulatory Commission (NRC) to renew the operating licenses for the two nuclear power generating units at NMP, located in Oswego County, New York. You are likely aware that the operating licenses for several U.S. nuclear power plants have been successfully renewed, and that applications for license renewal for several other plants have been submitted to the NRC for review. Successful renewal would extend the NMP operating licenses for an additional 20 years; i.e., until 2029 and 2046 for Units 1 and 2, respectively.

In addition to detailed safety reviews, the license renewal process involves a thorough review of potential environmental impacts by NMPNS and the NRC in accordance with provisions of the National Environmental Policy Act (NEPA). The attached fact sheet provides an overview of the process and associated environmental review activities for NMP. In brief, the NRC has prepared a generic environmental impact statement (GEIS) that addressed environmental impacts of license renewal on the basis of a review of plants nationwide. Detailed environmental review for individual plants such as NMP includes preparation of an environmental report (ER) by the applicant and a site-specific supplement to the GEIS by the NRC. These latter documents must include impact assessments for site-specific environmental issues that were not resolved generically by the NRC in the GEIS. They also must identify any known "new and significant information," i.e., potentially significant environmental issues or impacts not recognized as such by the NRC in the GEIS, and the NRC's codified findings from the GEIS (10 CFR 51.53). In accordance with NEPA, the NRC's process for developing the site-specific supplements includes substantial opportunity for participation by agencies and the public, including the opportunity to formally comment on the scope of the NRC's site-specific supplement to the GEIS and the adequacy of that document.

**NINE MILE POINT NUCLEAR STATION
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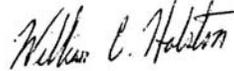
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Please address your agency's interest in a meeting, and any questions or concerns about the environmental review to:

Kent Stoffle
Nine Mile Point Nuclear Station, LLC
348 Lake Road
Oswego, NY 13126
Tel.: 315-349-1364
Email: kent.stoffle@constellation.com

Thank you on behalf of NMPNS and the NMP License Renewal Environmental Review Team.

Sincerely,



William C. Holston
Manager, Engineering Services

WCH/KES/bjh
Attachment

**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
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**AN OVERVIEW OF THE
LICENSE RENEWAL ENVIRONMENTAL REVIEW PROCESS
FOR THE NINE MILE POINT NUCLEAR STATION**

BACKGROUND

Nine Mile Point Nuclear Station, LLC (NMPNS) operates the Nine Mile Point Nuclear Station (NMP), a two-unit nuclear power plant located on approximately 900 acres situated on Lake Ontario in the Town of Scriba, Oswego County, New York. NMPNS, a wholly-owned subsidiary of Constellation Energy of Baltimore, Maryland owns 100% of NMP Unit 1 and 82% of NMP Unit 2. The Long Island Power Authority (LIPA) owns the remaining 18% of NMP Unit 2. Net electrical capacity is 615 and 1,144 megawatts electric (MWe), respectively, for Units 1 and 2 for a total net output of 1759 MWe. NMP Unit 1 has a once-through cooling system. NMP Unit 2 features a closed-cycle cooling system using a natural draft cooling tower for the circulating water system, while the service water system is once through with a portion of the flow recirculated to provide make-up water for evaporative losses from the cooling tower. The water for these systems is withdrawn from and discharged back to Lake Ontario. Three single circuit 345-kV transmission lines transmit power from the two NMP switchyards to the transmission grid. Two of these lines connect to the Scriba Substation, located about 2,000 feet southeast of the switchyards. The third line extends approximately 26 miles southeast to the Clay Substation.

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**NINE MILE POINT NUCLEAR STATION
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**NINE MILE POINT NUCLEAR STATION
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**NINE MILE POINT NUCLEAR STATION
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**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
ENVIRONMENTAL INFORMATION**

P.O. Box 63
Lycoming, New York 13093



**Constellation
Energy Group**

Nine Mile Point
Nuclear Station

February 28, 2004
NMPE 0402

Mr. Steve Resler
New York State Department of State
Division of Coastal Resources
41 State Street
Albany, NY 12231-0001

Dear Mr. Resler:

SUBJECT: Environmental Review for Nine Mile Point Nuclear Station License Renewal Project

With this letter, Nine Mile Point Nuclear Station, LLC (NMPNS) requests your input to the Nine Mile Point Nuclear Station (NMP) license renewal environmental review. NMPNS, with the assistance of Constellation Nuclear Services, Inc., is currently preparing applications for submittal to the U.S. Nuclear Regulatory Commission (NRC) to renew the operating licenses for the two nuclear power generating units at NMP, located in Oswego County, New York. You are likely aware that the operating licenses for several U.S. nuclear power plants have been successfully renewed, and that applications for license renewal for several other plants have been submitted to the NRC for review. Successful renewal would extend the NMP operating licenses for an additional 20 years; i.e., until 2029 and 2046 for Units 1 and 2, respectively.

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**NINE MILE POINT NUCLEAR STATION
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Thank you on behalf of NMPNS and the NMP License Renewal Environmental Review Team.

Sincerely,



William C. Holston
Manager, Engineering Services

WCH/KES/bjh
Attachment

**NINE MILE POINT NUCLEAR STATION
LICENSE RENEWAL APPLICATION
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