BEFORE THE UNITED STATES NUCLEAR REGULATORY COMMISSION

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In the Matter of

POWER AUTHORITY OF THE STATE OF NEW YORK

Docket No. 50 - 286

Indian Point 3 Nuclear Power Plant

APPLICATION FOR AMENDMENT TO THE OPERATING LICENSE

Pursuant to Section 50.90 of the regulations of the Nuclear Regulatory Commission, the Power Authority of the State of New York, as holder of Facility Operating License No. DPR-64, hereby applies for an amendment to the Technical Specifications contained in Appendices A and B of this license.

This application for amendment to the Indian Point 3 Technical Specifications proposes to convert the Indian Point 3 current Technical Specifications (CTS) to be consistent with the Improved Standard Technical Specifications (ISTS) in NUREG-1431, Revision 1, dated April 1995. The proposed license amendment request was prepared considering the guidance of Nuclear Energy Institute (NEI) NEI 96-06, "Improved Technical Specifications Conversion Guidance," dated August 1996.

The proposed licence amendment request to convert the Indian Point 3 CTS to the Indian Point 3 Improved Technical Specification (ITS) is enclosed with this application.

POWER AUTHORITY OF THE STATE OF NEW YORK

J. Knubel Senior Vice President and Chief Nuclear Officer

STATE OF NEW YORK COUNTY OF WESTCHESTER

9812150201

EILEEN E. O'CONNOR Notary Public State of New York No. 4591062 Qualified in wesichester County Commission Expires January 21, 2000

Subscribed and Sworn to before me this / 1th day of December 1998 otary Public

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ATTACHMENT 1 to IPN-98-134

Synopsis of the License Amendment Request for Conversion to Improved Technical Specifications (ITS)

NEW YORK POWER AUTHORITY INDIAN POINT 3 NUCLEAR POWER PLANT DOCKET NO. 50-286 DPR-64

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The submittal for the conversion of the IP3 current Technical Specifications (CTS) to the IP3 Improved Technical Specifications (ITS) consists of six (6) sections collected into 20 volumes. The 6 sections of the conversion submittal are as follows:

- I. Application of NRC Selection Criteria including the CTS to ITS Disposition and Relocation Matrix (Split Report);
- II. Relocated Requirements Descriptions and Justifications for the relocation of selected IP3 current Technical Specifications (CTS);
- III. IP3 Conversion Packages Descriptions and Justifications for the conversion of IP3 current Technical Specifications (CTS) to IP3 Improved Technical Specifications;
- IV. Evaluations supporting a finding of No Significant Hazards Consideration (NSHC) as required by 10 CFR 50.91(a) for proposed changes classified as Administrative (A), More Restrictive (M), Removed Detail (LA) or Relocated (R) (Note that NSHCs for changes classified as Less Restrictive (L) are included in Section III);
- V. IP3 CTS Master Markup; and
- VI. IP3 ITS Specifications and ITS Bases.

A detailed description of each of these 6 sections is as follows:

Section I: Application of NRC Selection Criteria including the CTS to ITS Disposition and Relocation Matrix (Split Report)

Section I is an explanation of the process and a summary of the results of the application of the 10 CFR 50.36(c)(2)(ii) criteria for which requirements must be classified as Technical Specifications. The "NRC Selection Criteria" document provides a discussion of how the criteria of 10 CFR 50.36(c)(2)(ii) were applied to the Indian Point 3 CTS requirements. The "ITS Disposition and Relocation Matrix" (Split Report) presents a summary of the results of this process by listing each CTS specification and whether or not the CTS specification is retained in the IP3 ITS. If retained in the IP3 ITS, the matrix identifies the new ITS specification of the requirement in the Improved Technical Specifications. If not retained in the IP3 ITS, the matrix identifies the Section II subsection that provides the detailed justification for relocation and the proposed new location for relocated requirements.

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Section II. Descriptions and Justifications for the relocation of selected IP3 current Technical Specifications (CTS)

Section II consists of 20 subsections (which are listed in Attachment 2), one for each of the CTS requirements that do not meet any of the 10 CFR 50.36(c)(2)(ii) criteria for inclusion in the Technical Specifications. Each of the 20 subsections consists of 2 parts as follows:

<u>Part 1</u> includes the associated current Technical Specification pages that have been annotated to show the relocated CTS requirement. The cover page for Part 2 identifies the effective amendment for each CTS page and any docketed Technical Specific Change Request (TSCR) that is not yet approved. All unapproved TSCRs docketed as of November 1, 1998 are incorporated into the ITS conversion package. TSCRs are listed in Attachment 3.

<u>Part 2</u> is the justification for relocation of the CTS requirement to a document controlled by the New York Power Authority in accordance with 10 CFR 50.59 or 10 CFR 50.54(a). The justification for relocation consists of an evaluation of the CTS requirement against each of 4 criteria in 10 CFR 50.36(c)(2)(ii) and a determination that the relocated requirement has not been previously evaluated as risk significant in the IP3 Individual Plant Examination (IPE). This section also identifies the proposed new location for the CTS requirement with a discussion of how this location ensures an appropriate change control process and an appropriate level of regulatory oversight are maintained for the requirement being relocated out of the Technical Specifications.

Section III. Descriptions and Justifications for the conversion of IP3 current Technical Specifications (CTS) to IP3 Improved Technical Specifications

Section III consists of 107 subsections (which are listed in Attachment 2), one for each of the proposed IP3 Improved Technical Specifications. To facilitate both the NYPA and NRC review, each subsection contains the information necessary for review of one proposed IP3 Specification. Each of the 107 subsections is divided into 6 parts as follows:

<u>Part 1</u> is a typed final copy of the proposed IP3 Improved Technical Specification including the associated Bases.

<u>Part 2</u> consists of the current Technical Specification pages annotated to show the differences between the CTS and the IP3 Improved Technical Specification (CTS Markup). These "CTS Markups" also provide a cross reference to the equivalent ITS requirement in both Part 1 and Part 5 of the subsection. Where a proposed ITS requirement differs from a CTS requirement, individual details of the CTS revision are annotated with alphanumeric designators which relate to the appropriate Discussion of Change (DOC) which is included in Part 3 of the subsection. The alphanumeric designators also relate to the evaluations supporting a finding of No Significant Hazards Consideration (NSHC) which is included in Part 4 of the subsection. The cover page for Part 2 identifies the effective amendment for

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each CTS page and any docketed Technical Specific Change Request (TSCR) that is not yet approved. All unapproved TSCRs docketed as of November 1, 1998 are incorporated into the ITS conversion package. TSCRs are listed in Attachment 3.

<u>Part 3</u> consists of a Discussion of Change (DOC) for each of the differences between the CTS and the proposed ITS. The changes are listed by the alphanumeric designators which provide a cross reference to the CTS Markup contained in Part 2, the NSHC contained in Part 4, and the ITS Markup contained in Part 5. Each DOC includes a reference to and description of both the CTS and ITS requirements being discussed, the reason the change is needed, and a detailed justification that the proposed change does not result in a significant safety hazard.

Each of the changes between the CTS and the ITS is classified into one of the following categories:

<u>Administrative Changes</u> (with a designator A.*n*) are changes to the CTS that do not result in new requirements or change operational restrictions or flexibility. These changes are supported in aggregate by a single NSHC contained in Section IV.

<u>More Restrictive Changes</u> (with a designator M.*n*) are changes to the CTS that establish a new requirement, require new or more frequent testing, or reduce operational flexibility. These changes are supported in aggregate by a single NSHC contained in Section IV.

Less Restrictive Changes (with a designator L.*n*) are changes to the CTS that eliminate existing requirements, require less or less frequent testing, or increase operational flexibility. These changes are supported by a change specific NSHC contained in Part 4 of each subsection.

Less Restrictive Administrative Changes (with a designator LA.*n*) are changes to the CTS that relocate details out of the CTS and into the Bases, FSAR, or other appropriate licensee-controlled document. These are administrative changes because there is no change to the CTS requirement, it is simply relocated to a licensee-controlled document. These are less restrictive changes because the relocation results in a less restrictive change control process and a reduced level of regulatory oversight. These changes are supported in aggregate by a single NSHC contained in Section IV.

<u>Part 4</u> consists of the NYPA evaluations supporting a finding of No Significant Hazards Consideration (NSHC) as required by 10 CFR 50.91(a) for proposed changes classified as Less Restrictive.

<u>Part 5</u> consists of a copy of NUREG-1431, Revision 1, annotated to show differences between the NUREG-1431 and the proposed IP3 ITS. These ITS markups include cross references to the descriptions and justifications of the changes included in Part 3 and cross



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references to the equivalent IP3 CTS in Part 2. Cross references to the Justification of Differences between NUREG-1431 and IP3 ITS contained in Part 6 are annotated. The cover page for Part 5 identifies associated "ISTS Change Travelers" and their approval status as of August 1998. With one exception, only approved ISTS Change Travelers have been incorporated.

<u>Part 6</u> includes the Justification for Differences (JDs) between NUREG-1431 and the IP3 ITS. Differences between the IP3 ITS and NUREG-1431, Revision 1, were made for any of the following reasons:

Existing requirements (Current Licensing Basis) are maintained where a demonstrated need exists and the CTS requirement was previously justified and approved. Each of these changes was evaluated to ensure that the need still exists and that maintaining the CLB does not result in a significant adverse impact on safety.

Plant-specific Wording Preferences or Minor Editorial Improvements were incorporated into the Bases to improve clarity, or ensure requirements are fully understood and consistently applied by the NYPA staff.

Plant-specific difference in the design or design basis were incorporated as necessary to more precisely describe IP3 current design or practice.

Differences based on an approved Generic Change Traveler for NUREG-1431 were incorporated. The cover page for Part 5 identifies associated "ISTS Change Travelers" and their approval status as of August 1998. With one exception, only approved ISTS Change Travelers have been incorporated.

Section IV. Evaluations supporting a finding of No Significant Hazards Consideration (NSHC) changes classified as Administrative, More Restrictive, Removed Detail or Relocated.

Section IV consists of the NYPA evaluations supporting a finding of No Significant Hazards Consideration (NSHC) as required by 10 CFR 50.91(a) for proposed changes classified as Administrative, More Restrictive, Removed Detail or Relocated. Section IV also contains the environmental assessment in accordance with 10 CFR 51.21.

Section V. IP3 CTS Master Markup

Section V is a copy of all of the CTS pages that were annotated to show differences between CTS and ITS for the 127 subsections in Sections II (20) and III (107). The CTS Markups from each of the 127 subsections in Sections II and III are presented in the order of the ITS. The compilation volume provides an entire markup of the CTS in CTS order to facilitate NRC review efforts and to demonstrate that all CTS requirements are accounted for. In many instances, the same CTS page is used in different ITS sections. As a result, in the compilation volume, the

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CTS pages that are included in more than one ITS Specification package will appear with the annotations associated with each ITS Specification package in which the CTS page appears. A CTS Master Markup table of contents is provided.

Section VI. IP3 ITS Specifications and ITS Bases

Section VI is a copy of the Indian Point 3 ITS Specifications and ITS Bases presented in their complete form to facilitate the review of the document in an integrated manner.

Table of Contents

The six sections, discussed previously, are contained in 20 volumes. A table of contents for these volumes is provided below.

<u>VOLUME #</u>	SECTION #	TITLE	
1	I	SPLIT REPORT	
	II	RELOCATED ITEMS	
2	111	ITS 1.0, 2.0, 3.0	
3	111	ITS 3.1	
4	III ,	ITS 3.3.1, 3.3.2	
6	111	ITS 3.3.3 - 3.3.8	
7	111	ITS 3.4.1 - 3.4.10	
8	111	ITS 3.4.11 - 3.4.16	
9	111	ITS 3.5	
10	111	ITS 3.6	
11	111	ITS 3.7.1 - 3.7.8	
12	111	ITS 3.7.9 - 3.7.17	
13	111	ITS 3.8	
14	111	ITS 3.9	
15	111	ITS 4.0. 5.0	
	IV	GENERIC NSHC	
16	V	CTS MASTER MARKUP LIC., 1.0 - 3.14	
17	V	CTS MASTER MARKUP 4.1 - 6.14, ETS	
18	VI	IP3 ITS SPECIFICATIONS	
19	VI	IP3 ITS BASES 1.0 - 3.4	
20	VI	IP3 ITS BASES 3.5 - 5.15	



List of the IP3 ITS Conversion Packages

NEW YORK POWER AUTHORITY INDIAN POINT 3 NUCLEAR POWER PLANT DOCKET NO. 50-286 DPR-64

1.0	USE AND APPLICATION
2.0	SAFETY LIMITS (SLs)
3.0	LCO APPLICABILITY and SR APPLICABILITY
3.1	REACTIVITY CONTROL SYSTEMS
3.1.1	SHUTDOWN MARGIN
3.1.2	Core Reactivity
3.1.3	Moderator Temperature Coefficient (MTC)
3.1.4	Rod Group Alignment Limits
3.1.5	Shutdown Bank Insertion Limits
3.1.6	Control Bank Insertion Limits
3.1.7	Rod Position Indication
3.1.8	PHYSICS TESTS Exceptions - MODE 2
3.2	POWER DISTRIBUTION LIMITS
3.2.1	Heat Flux Hot Channel Factor $(F_0(Z))$
3.2.2	Nuclear Enthalpy Rise Hot Channel Factor (F ^N ,)
3.2.3	AXIAL FLUX DIFFERENCE (AFD)
3.2.4	QUADRANT POWER TILT RATIO (QPTR)
3.3	INSTRUMENTATION
3.3.1	Reactor Protection System (RPS) Instrumentation
3.3.2	Engineered Safety Feature Actuation System (ESFAS)
	Instrumentation
3.3.3	Post Accident Monitoring (PAM) Instrumentation
3.3.4	Remote Shutdown
3.3.5	Loss of Power (LOP) Diesel Generator (DG) Start
	Instrumentation
3.3.6	Containment Purge System and Pressure Relief Line Isolation
	Instrumentation

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3.3	INSTRUMENTATION (continued)
3.3.7	Control Room Ventilation (CRVS)
3.3.8	Fuel Storage Building Emergency Ventilation System (FSBEVS) Actuation Instrumentation
3.4 3.4.1	REACTOR COOLANT SYSTEM (RCS) RCS Pressure, Temperature, and Flow Departure from Nucleate Boiling (DNB) Limits
3.4.2 3.4.3 3.4.4 3.4.5 3.4.6 3.4.7 3.4.8 3.4.9 3.4.10 3.4.10 3.4.12 3.4.12 3.4.13 3.4.14 3.4.15 3.4.16	RCS Minimum Temperature for Criticality RCS Pressure and Temperature (P/T) Limits RCS Loops - MODES 1 and 2 RCS Loops - MODE 3 RCS Loops - MODE 3 RCS Loops - MODE 5, Loops Filled RCS Loops - MODE 5, Loops Not Filled Pressurizer Pressurizer Pressurizer Safety Valves Pressurizer Power Operated Relief Valves (PORVs) Low Temperature Overpressure Protection (LTOP) RCS Operational LEAKAGE RCS Pressure Isolation Valve (PIV) Leakage RCS Leakage Detection Instrumentation RCS Specific Activity
3.5 3.5.1 3.5.2 3.5.3 3.5.4	EMERGENCY CORE COOLING SYSTEMS (ECCS) Accumulators ECCS - Operating ECCS - Shutdown Refueling Water Storage Tank (RWST)
3.6 3.6.1 3.6.2 3.6.3 3.6.4 3.6.5	CONTAINMENT SYSTEMS Containment Containment Air Locks Containment Isolation Valves Containment Pressure Containment Air Temperature

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3.6	CONTAINMENT SYSTEMS (continued)			
3.6.6 3.6.7	Containment Spray System and Containment Fan Cooler System Spray Additive System			
3.6.8	Hydrogen Recombiners			
3.6.9	Isolation Valve Seal Water (IVSW) System			
3.7	PLANT SYSTEMS			
3.7.1	Main Steam Safety Valves (MSSVs)			
3.7.2	Main Steam Isolation Valves (MSIVs) and Main Steam Check Valves (MSCVs)			
3.7.3	Main Boiler Feedpump Discharge Valves (MBFPDVs), Main Feedwater Regulation Valves (MBFRVs) and MBFRV Low Flow Bypass Valves			
3.7.4	Atmospheric Dump Valves (ADVs)			
3.7.5	Auxiliary Feedwater (AFW) System			
3.7.6	Condensate Storage Tank (CST)			
3.7.7	City Water (CW)			
3.7.8	Component Cooling Water (CCW) System			
3.7.9	Service Water (SW) System			
3.7.10	Ultimate Heat Sink (UHS)			
3.7.11	Control Room Ventilation System (CRVS)			
3.7.12	Control Room Air Conditioning System (CRACS)			
3.7.13	Fuel Storage Building Emergency Ventilation System (FSBEVS)			
3.7.14	Spent Fuel Pit Water Level			
3.7.15	Spent Fuel Pit Boron Concentration			
3./.10	Spent Fuel Assembly Storage			
3.7.17	Secondary Specific Activity			
3.8	ELECTRICAL POWER SYSTEMS			
3.8.1	AC Sources - Operating			
3.8.2	AC Sources – Shutdown			
3.8.3	Diesel Fuel Oil and Starting Air			
3.8.4	DC Sources – Operating			
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3.8.6	Battery Cell Parameters			
3.8.7	Inverters - Operating			
3.0.0 300	Inverters - Shutdown			
3.0.9 3 8 10	Distribution Systems - Operating			
3.0.10	DISTINUTION SYSTEMS - SHULUOWN			

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3.9	REFUELING OPERATIONS
3.9.1	Boron Concentration
3.9.2	Nuclear Instrumentation
3.9.3	Containment Penetrations
3.9.4	Residual Heat Removal (RHR) and Coolant Circulation - High Water Level
3.9.5	Residual Heat Removal (RHR) and Coolant Circulation - Low Water Level
3.9.6	Refueling Cavity Water Level
4.0	DESIGN FEATURES
5.0	ADMINISTRATIVE CONTROLS
5.1	Responsibility
5.2	Organization
5.3	Unit Staff Qualifications
5.4	Procedures
5.5	Programs and Manuals
5.5.1	Offsite Dose Calculation Manual (ODCM)
5.5.2	Primary Coolant Sources Outside Containment
5.5.3	Post Accident Sampling
5.5.4	Radioactive Effluent Controls Program
5.5.5	Component Cyclic or Transient Limit
5.5.6	Reactor Coolant Pump Flywheel Inspection Program
5.5.7	Inservice Testing Program
5.5.8	Steam Generator (SG) Tube Surveillance Program
5.5.9	Secondary Water Chemistry Program
5.5.10	Ventilation Filter Testing Program (VFTP)
5.5.11	Explosive Gas and Storage Tank Radioactivity Monitoring Program
5.5.12	Diesel Fuel Oil Testing Program
5.5.13	Technical Specification (TS) Bases Control Program
5.5.14	Safety Function Determination Program (SFDP)
5.5.15	Containment Leakage Rate Testing Program
5.6	Reporting Requirments

5.7 High Radiation Area

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<u>IP3 Relocated CTS Specifications</u>:

R.1 Reactor Vessel Head Vents R.2 Steam Generator Secondary Side Minimum Temperature For Pressurization R.3 Pressurizer Heatup And Cooldown R.4 Maximum Reactor Coolant Oxygen, Chloride And Fluoride Concentration R.5 Chemical And Volume Control System R.6 Weld Channel and Penetration Pressurization System (WC & PPS) R.7 Steam And Power Conversion System (Turbine Generator) R.8 Area Radiation Monitoring and Plant Effluent Radioiodine/particulate Sampling R.9 Auxiliary Electrical Systems (A.C. Circuits Inside Containment) R.10 Refueling, Fuel Handling and Storage (Communications) R.11 Refueling, Fuel Handling and Storage (Decay Time) R.12 Refueling (Manipulator Cranes and Spent Fuel Cask) R.13 Service Water Isolation Valve Leakage (0.36 GPM Leakage Limit) R.14 Radioactive Materials Management R.15 Movable Incore Instrumentation R.16 River Level (Flooding Protection) R.17 Safety-related Shock Suppressors (Snubbers) R.18 Toxic Gas Monitoring R.19 Reactor Coolant System Integrity Testing R.20 Seismic Instrumentation





ATTACHMENT 3 to IPN-98-134

List of the Docketed IP3 Technical Specification Change Requests (TSCRs)

NEW YORK POWER AUTHORITY INDIAN POINT 3 NUCLEAR POWER PLANT DOCKET NO. 50-286 DPR-64

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List of the Docketed IP3 Technical Specification Change Requests (TSCRs)

TAC Number	NYPA TSCR Number	TSCR Name
M96030	IPN-96-063	Leakage Limits for RCS and SIS
M96620	IPN-96-101	Deleted PORC Review of Fire Protection Procedure
M97673	IPN-96-124	AOT for ESF Initiation Instrumentation
M99231	IPN-97-051	SRC Audit Requirements and Management Title Changes
M99028	IPN-97-070	Clarification of Containment Integrity
MA1120	IPN-98-018	Generic Letter 89-01 and 10 CFR 20 Generic Letter
MA1641	IPN-98-043	Instrument SR Intervals Extended to 24 Months
MA1640	IPN-98-044	DG Testing when a DG is Inoperable
MA3943	IPN-98-113	Relocate CVCS Specification