

June 8, 2001

Mr. Oliver D. Kingsley, President  
and Chief Nuclear Officer  
Exelon Nuclear  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 500  
Downers Grove, IL 60515

SUBJECT: CLINTON POWER STATION, UNIT 1 - REQUEST FOR EXEMPTION FROM  
CERTAIN REQUIREMENTS OF 10 CFR 55.31 (TAC NO. MB1695)

Dear Mr. Kingsley:

By letter dated March 29, 2001, AmerGen Energy Company, LLC (licensee) requested an exemption for individuals in the current operator licensing classes at Clinton Power Station (CPS) from the requirements of 10 CFR 55.31(a)(5). Section 55.31(a)(5), "How to Apply," states, the applicant shall: "Provide evidence that the applicant, as a trainee, has successfully manipulated the controls of the facility for which a license is sought. At a minimum, five significant control manipulations must be performed which affect reactivity or power level." By letter dated March 29, 2001, the licensee, acting as an agent for the individuals currently enrolled in an operator training class, requested an exemption from the requirements of 10 CFR 55.31(a)(5), that require the five significant control manipulations be performed on the facility by the individual applicants. The proposed exemption would allow certain individual operator licensing applicants to perform the five significant control manipulations on the plant-referenced simulator facility in lieu of using the actual plant.

Eligibility for an operator license encompasses education, training, and experience factors. Reactivity manipulations are an operating experience requirement. Use of a plant-referenced simulator of appropriate fidelity for such manipulations is appropriate, based upon improvements in simulator technology, and thirteen years of successful experience in using plant-specific simulation facilities since the 1987 revision of 10 CFR Part 55. Modern plant-referenced simulation facilities in operation today are providing accurate and validated plant training and examination scenarios that convey realism in reactivity manipulations and complex plant operations including simultaneous task management and faulted conditions. The proposed exemption would allow part of the plant operating experience requirements for individual operator license eligibility to be fully satisfied in a timely manner within the licensee's Commission-approved training program without impacting operation of the actual plant.

The CPS operator training program is a Commission-approved training program that is based on a systems approach to training and utilizes a simulation facility acceptable to the Commission. The simulator will use models relating to the nuclear and thermal-hydraulic characteristics that replicate the core load that exists in the unit for which a license is being sought at the time of the applicant's operating test. The licensee will validate significant control

manipulation scenarios prior to use and have adequate simulator fidelity support programs that provide software control. In addition, the licensee will be using the controlled plant procedures for the simulator that are maintained to the same standards as the procedures located in the control room for the required significant control manipulations.

Pursuant to 10 CFR 55.11, "Specific exemptions," the Commission may, upon application by an interested person, or upon its own initiative, grant such exemptions from the requirements of the regulations in this part as it determines are authorized by law and will not endanger life or property or the common defense and security and is otherwise in the public interest.

The Commission has determined that the proposed alternative method using the plant-referenced simulator facility in lieu of the actual plant, as described above, will meet the intent of performing significant control manipulations. Accordingly, the Commission has determined that the proposed exemption: (1) is authorized by law; (2) will not endanger life or property; (3) will not endanger the common defense and security; and (4) is otherwise in the public interest. Therefore, exemptions will be granted to the operator licensing applicants listed in the March 29, 2001, letter at the time that the individual operator or senior operator licenses are issued.

Approval upon this basis is consistent with guidelines set forth in SECY 99-225, "Rulemaking Plan for Changes to 10 CFR Part 55, to Reduce Unnecessary Regulatory Burden Associated with the Use of Simulation Facilities in Operator Licensing," for interim regulatory relief in this area.

Sincerely,

*/RA/*

Cynthia A. Carpenter, Acting Director  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-461

cc: See next page

manipulation scenarios prior to use and have adequate simulator fidelity support programs that provide software control. In addition, the licensee will be using the controlled plant procedures for the simulator that are maintained to the same standards as the procedures located in the control room for the required significant control manipulations.

Pursuant to 10 CFR 55.11, "Specific exemptions," the Commission may, upon application by an interested person, or upon its own initiative, grant such exemptions from the requirements of the regulations in this part as it determines are authorized by law and will not endanger life or property or the common defense and security and is otherwise in the public interest.

The Commission has determined that the proposed alternative method using the plant-referenced simulator facility in lieu of the actual plant, as described above, will meet the intent of performing significant control manipulations. Accordingly, the Commission has determined that the proposed exemption: (1) is authorized by law; (2) will not endanger life or property; (3) will not endanger the common defense and security; and (4) is otherwise in the public interest. Therefore, exemptions will be granted to the operator licensing applicants listed in the March 29, 2001, letter at the time that the individual operator or senior operator licenses are issued.

Approval upon this basis is consistent with guidelines set forth in SECY 99-225, "Rulemaking Plan for Changes to 10 CFR Part 55, to Reduce Unnecessary Regulatory Burden Associated with the Use of Simulation Facilities in Operator Licensing," for interim regulatory relief in this area.

Sincerely,  
**/RA/**  
Cynthia A. Carpenter, Acting Director  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-461

cc: See next page

Distribution:  
PUBLIC      LBerry  
PD3/2 r/f    OGC  
AMendiola   GHill (2)  
JHopkins     ACRS  
THarris      TBergman

|        |          |          |          |
|--------|----------|----------|----------|
| OFFICE | PM:PD3-2 | LA:PD3-2 | SC:IOLB  |
| NAME   | JHopkins | THarris  | DTrimble |
| DATE   | 5/11/01  | 5/5/01   | 5/3/01   |

|        |         |           |        |            |
|--------|---------|-----------|--------|------------|
| OFFICE | OGC     | SC:PD3-2  | D: PD3 | D:DLPM     |
| NAME   | STreby  | AMendiola | SBajwa | CCarpenter |
| DATE   | 5/16/01 | 6/1/01    | 6/2/01 | 6/8/01     |

Accession No. ML011590494

Oliver D. Kingsley

Clinton Power Station, Unit 1  
AmerGen Energy Company, LLC

cc:

John Skolds  
Chief Operating Officer  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

R. M. Krich  
Director-Licensing  
Mid-West Regional Operating Group  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

William Bohlke  
Senior Vice President Nuclear Services  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

Robert Helfrich  
Senior Counsel, Nuclear  
Mid-West Regional Operating Group  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

John Cotton  
Senior Vice President - Operations  
Support  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

Document Control Desk-Licensing  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

Christopher Crane  
Senior Vice President - Mid-West  
Regional Operating Group  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

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

Jeffrey Benjamin  
Vice President - Licensing and  
Regulatory Affairs  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

J. M. Heffley  
Vice President  
Clinton Power Station  
RR 3, Box 228  
Clinton, IL 61727-9351

H. Gene Stanley  
Operations Vice President  
Mid-West Regional Operating Group  
Exelon Generation Company, LLC  
1400 Opus Place, Suite 900  
Downers Grove, IL 60515

M. J. Pacilio  
Plant Manager  
Clinton Power Station  
RR 3, Box 228  
Clinton, IL 61727-9351

W. S. Iliff  
Regulatory Assurance Manager (Acting)  
Clinton Power Station  
RR 3, Box 228  
Clinton, IL 61727-9351

Oliver D. Kingsley

Clinton Power Station, Unit 1  
AmerGen Energy Company, LLC

cc:

Resident Inspector  
U.S. Nuclear Regulatory Commission  
RR#3, Box 229A  
Clinton, IL 61727

R. T. Hill  
Licensing Services Manager  
General Electric Company  
175 Curtner Avenue, M/C 481  
San Jose, CA 95125

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

Chairman of DeWitt County  
c/o County Clerk's Office  
DeWitt County Courthouse  
Clinton, IL 61727

J. W. Blattner  
Project Manager  
Sargent & Lundy Engineers  
55 East Monroe Street  
Chicago, IL 60603