NRC PDR

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

October 3, 1978

Docket No. 50-219

Jersey Central Power & Light Company
ATTN: Mr. I. R. Finfrock, Jr.
Vice President - Generation
Madison Avenue at Punch Bowl Road
Morristown, New Jersey 07960

Gentlemen:

We have completed a preliminary review of your application for license amendment dated May 3, 1978, concerning the Augmented Offgas System at Oyster Creek. We have concluded that the Technical Specifications should include limiting conditions for operation and surveillance requirements for hydrogen content and hydrogen monitors in the offgas system.

Please propose such specifications as a supplement to your May 3, 1978 application. A copy of the pertinent pages from the BWR Standard Technical Specifications are enclosed for your guidance.

Sincerely,

Dennis L Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

Enclosure:
Technical Specifications

cc w/enclosure:
See next page

7810190045

cc w/enclosure:
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RADIOACTIVE EFFLUENTS

EXPLOSIVE GAS MIXTURE (Systems designed to withstand a hydrogen explosion)

LIMITING CONDITION FOR OPERATION

3.11.2.5 The concentration of (hydrogen or oxygen) in the waste gas holdup system shall be limited to $\leq$ 4% by volume.

APPLICABILITY: At all times.

ACTION:

a. With the concentration of (hydrogen or oxygen) in the waste gas holdup system exceeding the limit, restore the concentration to within the limit within 48 hours.

SURVEILLANCE REQUIREMENTS

4.11.2.5 The concentration of (hydrogen or oxygen) in the waste gas holdup system shall be determined to be within the above limits by continuously monitoring the waste gases in the waste gas holdup system with the (hydrogen or oxygen) monitors required OPERABLE by Table 3.3-12 of Specification 3.3.3.9.

TABLE 3.3-12 (Continued)

TABLE NOTATION

ACTION 23 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via the affected pathway may continue for up to 7 days provided the gross radioactivity level is recorded at least once per 4 hours.

ACTION 25 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, gases from the condenser air removal system may be released to the environment for up to 48 hours provided:

1. The waste gas holdup system is not bypassed, and

2. The waste gas holdup system noble gas activity monitor is OPERABLE:

otherwise, be in at least HOT STANDBY within 12 hours.

ACTION 26 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue for up to 7 days provided the flow rate is estimated at least once per 4 hours.

ACTION 27 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue for up to 7 days provided grab samples are taken at least once per 4 hours and these samples are analyzed for gross activity at least once per 24 hours.

ACTION 28 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, suspend release of radioactive effluents via this pathway.

ACTION 29 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, operation of this waste gas holdup system may continue for up to 14 days provided gas samples are analyzed at least once per 4 hours.

ACTION 30 - With the number of channnels OPERABLE one less than required by the Minimum Channels OPERABLE requirement, operation of this waste gas holdup system may continue for up to 14 days. With both channels inoperable, immediately suspend operation of this waste gas holdup system.

TABLE 4.3-12

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

INSTRUMENT	CHANNEL CHECK	SOURCE CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	MODES IN WHICH SURVEILLANCE REQUIRED
1. Waste Gas Holdup System					
a. Noble Gas Activity Monitor	P	P	R(3)	Q(1)	*
b. Noble Gas Activity Recorder	D	N.A.	R	Q	*
c. Iodine Sampler	D	N.A.	N.A.	N.A.	*
d. Particulate Sampler	D	N.A.	N.A.	N.A.	*
e. Flow Rate Monitor	P	N.A.	R	Q	*
f. Sampler Flow Rate Monitor	D	N.A.	R	Q	*
g. Hydrogen Monitor	D	N.A.	Q(4)	M	**
h. Hydrogen Monitor (alternate)	D	N.A.	Q(4)	M	**
i. Oxygen Monitor	D	N.A.	Q(5)	M	**
j. Oxygen Monitor (alternate)	D	N.A.	Q(5)	M	**

TABLE 3.3-12

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

INSTRUMENT	MINIMUM CHANNELS OPERABLE	APPLICABILITY	ALARM/TRIP SETPOINT	MEASUREMENT RANGE	ACTION
1. Waste Gas Holdup System					
a. Noble Gas Activity Monitor	(1)	*	$\leq$ (____ cpm)	($10-10^6$ cpm)	27
b. Noble Gas Activity Recorder	(1)	*	N.A.	($10-10^6$ cpm)	23
c. Iodine Sampler	(1)	*	N.A.	N.A.	27
d. Particulate Sampler	(1)	*	N.A.	N.A.	27
e. Flow Rate Monitor	(1)	*	$\geq$ (____ cfm)	(0-____ cfm)	26
f. Sampler Flow Rate Monitor	(1)	*	$\geq$ (____ cfm)	(0-____ cfm)	26
g. Hydrogen Monitor	(1)	**	$\leq$ (4%) by volume	(0-20%) by volume	29
h. Hydrogen Monitor (alternate)					
1) alarm	2	**	$\leq$ (2%) by volume	(0-20%) by volume	30
2) alarm and initiate automatic control function	2	*	$\leq$ (4%) by volume	(0-20%) by volume	30

* During releases via this pathway.

**During waste gas storage system operation.