



CHAIRMAN

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

September 4, 1986

The Honorable Leonard T. Connors, Jr.  
New Jersey Senate  
620 W. Lacey Road  
Clocktower Building  
Forked River, New Jersey 08731

Distribution:  
Central File  
ORAS GT File  
EDO 1996  
DMossburg 1996  
VStello  
JRoe  
TRehm  
PDR  
TMurley, RI  
GWKerr  
FBrenneman (2)  
M. Virgilio  
GHolahan  
RVollmer  
HDenton  
JSniezek

Dear Mr. Connors:

This is in response to your July 25, 1986 letter requesting assistance in matters related to the Oyster Creek Nuclear Generating Station and the siting of hazardous waste disposal or storage facilities. In particular, you referred to New Jersey legislative proposals to permit the siting of such facilities within 20 miles of nuclear generating stations. You requested information on NRC's policy on the siting of such facilities near nuclear plants; the proximity of all hazardous waste facilities to nuclear plants around the country; and, how other states deal with this issue.

On the question of NRC policy on the siting of such facilities, the NRC does not have a position with respect to the presence of specific types of activities in the vicinity of reactor sites. In our siting regulations (Title 10 of the Code of Federal Regulations, Parts 50 and 100), the NRC requires that each utility include a safety analysis report (SAR) in the application for a construction permit. The SAR should include a description and an evaluation of potential accidents involving all industrial, transportation, and military facilities and activities within five miles of the plant, and facilities at greater distances if accidents there have the potential for affecting plant safety-related features. Such facilities include air, ground, and water traffic, pipelines, and fixed manufacturing, processing and storage facilities. The information is reviewed by the NRC to evaluate as many of the potential accident situations as possible. If activities are identified as having potentially hazardous effects on safe operation of the nuclear plant, the evaluations are performed with respect to the inherent capability of the plant or special plant design measures to prevent radiological releases in excess of regulatory limits should there be an accident at one of the neighboring facilities.

It is the licensee's responsibility to provide sufficient information to assure the NRC that the plant is adequately protected and can be operated with an acceptable degree of safety with regard to potential accidents which may occur as the result of the presence of hazardous materials or activities at

Originated: NRR:Brenneman

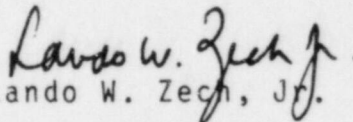
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nearby facilities. Periodically during the operating life of the plant, the licensee must update the Final Safety Analysis Report (FSAR) and include the identification and analysis of all new activities in the vicinity of the plant site.

The information you requested on the proximity of all hazardous waste facilities to nuclear plants around the country is not readily available within the NRC. The Environmental Protection Agency should have a compilation on the location of hazardous waste facilities in the United States. On the third item, we do not have information on the manner in which other states deal with this issue. The only source that we are aware of for such information is the National Conference of State Legislatures.

I hope this information is of assistance to you and your constituents in Ocean County with regard to the hazardous waste siting activities in New Jersey. For your information, I am enclosing that portion of the updated FSAR for Oyster Creek which provides the description and accident evaluation of nearby facilities.

Sincerely,

  
Lando W. Zech, Jr.

Enclosure:  
As Stated

Identical letter to: The Honorable Jeffrey W. Moran  
New Jersey Senate

OCNGS  
FSAR UPDATE

2.2        NEARBY INDUSTRIAL, TRANSPORTATION, AND MILITARY FACILITIES

2.2.1      Industrial Locations

Within 10 miles of the Oyster Creek Nuclear Generating Station (OCNGS), there are 38 industrial facilities. A survey of these industries showed that approximately 1832 individuals were employed there (data was not available from seven firms). The list of industries and their locations are shown on Table 2.2-1 and Figure 2.2-1.

2.2.2      Other Facilities

2.2.2.1    Waterways

The nearest navigable waterway to the OCNGS is Barnegat Bay. This body of water is relatively shallow. The average depth is less than 5 feet with a range of less than 1 foot to 20 feet at mean low tide. The U.S. Army Corps of Engineers maintains the Intercoastal Waterway, which crosses Barnegat Bay at a depth of 6 feet, mean water line. The Intercoastal Waterway is used by pleasure craft and commercial fishing boats.

2.2.2.2    Airports

There are 10 airport facilities within 20 miles of the OCNGS (Table 2.2-2 and Figure 2.2-2). The closest of these is a seaplane base some seven miles southeast.

Two Restricted Areas are within 20 miles, but none within 10 miles. These and air lanes and military air routes are listed on Table 2.2-2 and shown in Figure 2.2-2.

2.2.3      Evaluation of Potential Accidents

2.2.3.1    Aircraft Accidents

Aircraft strike probabilities were estimated for three size categories including small general aviation, medium-sized commercial, and large (heavy) commercial or military aircraft. The nearest airports of significance are at Lakehurst, 16 miles north-northwest and McGuire Air Force Base about 24 miles northwest. At these distances there is no significant hazard due to landing and takeoff activities. Low level military training routes in the area must be kept more than five miles from the plant by agreement between the military and the NRC. There is little traffic along these routes, and at this distance they represent an extremely low hazard to the plant.

Based on evaluation of the available information on air traffic conditions at the site, it was concluded that the only significant



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hazard is from the traffic along the V312 airway and general aviation in the area. Probabilities for a strike on the plant were developed for three sizes of aircraft based on available traffic information for each size. The largest mean frequency is from general aviation at  $4.0 \times 10^{-7}$ .

2.2.3.2 Explosions

Possible sources of explosions are essentially limited to transportation accidents. Explosion of chemicals being transported along Route 9 or the Parkway (the railroad along Route 9 is no longer in use) would present the only significant hazard in this regard. Route 9 is located about 400 meters east at its closest approach and the Parkway is located more than 1,000 meters west. Portions of the Parkway are closed to trucks; therefore, little through truck traffic passes the plant. There are no shipping channels near the plant.

Based on NRC Regulatory Guide 1.91 and information received from the New Jersey Department of Highways, the probability of explosions was estimated at  $1.5 \times 10^{-8}$  (mean frequency).

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TABLE 2.2-1  
(Sheet 1 of 2)

INDUSTRIES WITHIN 10 MILES OF OYSTER CREEK

<u>Reference Number (a)</u>	<u>Name</u>	<u>Location</u>	<u>Town</u>	<u>Number Of Employees</u>
1	Ocean County Utilities Authority (Sewage)	Hickory Ln	Bayville	195
2	Fisher Bros Sand & Gravel	Hickory Ln	Bayville	11
3	New Jersey Pulverizing	Hickory Ln	Bayville	20
4	Quarry Operation	Off Hwy 9	Bayville	*
5	Urner Barry Publica- tion	Double Trou- ble Rd	Beachwood	25
6	Dover Oil Co	Dover Rd	S Toms River	13
6	Best Block of Toms River	Dover Rd	S Toms River	12
7	Laursen Sheet Metal	Flint Rd	S Toms River	35
8	Nor-Dan Manufacturing	Irons St	Toms River	6
8	Park Iron & Steel Co	Irons St	Toms River	1
8	Shru-Heat Oil Co	Irons St	Toms River	17
9	H. Clay Glover Inc	Robbins St	Toms River	17
9	Ocean County Times- Observer	Robbins St	Toms River	125
10	S.M. Printing Inc	Hyers St	Toms River	1
11	Durwin Press	Lakehurst Rd	Toms River	5
12	Towne Fabrics	Lowell Ave	Toms River	20
13	S P Sheet Metal Co Inc	Hwy 37 East	Toms River	12
14	Ciba-Geigy Corp	Hwy 37 West	Toms River	1100
15	Woodland Manufacturing	Wheaton Ave	Bayville	18
16	Micro-Industrial Corp	Hickory Ln	Bayville	40
16	Denzer & Schafer X-Ray Co.	Hickory Ln	Bayville	6
17	DeMott & Aldrich Truck- ing Co.	Hickory Ln	Bayville	8
18	Moore & Garvey Roofing	Hwy 9	Bayville	4
19	Rickborn Industries	Hwy 9	Bayville	6
20	D & H Precision Tool Co	K St	Seaside Park	5
21	Eastern Shore Transit	Hwy 9	Waretown	*
22	Warren Industries	Hwy 9	Waretown	10
23	Island Oil Co	Stafford Ave	Manahawkin	10
24	Times-Beacon Co	Bay Ave	Manahawkin	40

\* Not available

(a) Reference numbers are keyed to Figure 2.2-1

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12/84

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FSAR UPDATE

TABLE 2.2-1  
(Sheet 2 of 2)

INDUSTRIES WITHIN 10 MILES OF OYSTER CREEK

<u>Reference Number (a)</u>	<u>Name</u>	<u>Location</u>	<u>Town</u>	<u>Number Of Employees</u>
25	Bay Construction	W Bay Ave	Barnegat	20
26	Francis M Moon Inc	Hwy 72	Barnegat	5
27	Vogue Construction	W Bay Ave	Barnegat	*
28	Modern Gas Service Inc	Hwy 72	Barnegat	14
29	French Earch Materials	Lacey Rd	Lacey Twp	*
30	Brick-Wall Corp	Lacey Rd	Lacey Twp	25
31	Atlantic Gravel Co.	Lacey Rd	Lacey Twp	*
32	Quarry Operation	Lacey Rd	Lacey Twp	*
33	Quarry Operation	Lacey Rd	Lacey Twp	*
34	Abex Copr	Pinewald Rd	Bayville	6

\* Not available

(a) Reference numbers are keyed to Figure 2.2-1

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OCNGS  
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TABLE 2.2-2  
(Sheet 1 of 1)

AIRPORTS, RESTRICTED AREAS AND AIR LANES WITHIN APPROXIMATELY 20 MILES  
OF OYSTER CREEK

<u>Airport/Heliport/ Seaplane Base*</u>	<u>Latitude</u>	<u>Longitude</u>
1. Lakewood Airport	40° 04' 00"	74° 10' 40"
2. Mantoloking Sea- plane Base	40 02 00	74 03 30
3. Pinelli Seaplane Base	39 45 00	74 07 00
4. WJRZ Helistop	39 42 00	74 15 00
5. Manahawkin Airport	39 42 00	74 16 45
6. Eagles Nest Airport	39 40 00	74 18 30
7. Lentine South PAF	39 47 05	74 22 36
8. Coyle Field	39 48 45	74 25 30
9. Ocean County Airpark (Miller Airport)	39 55 30	74 17 30
10. Lakehurst Naval Air Facility (Multiple Runway)	40 01 45	74 20 00

Restricted Areas

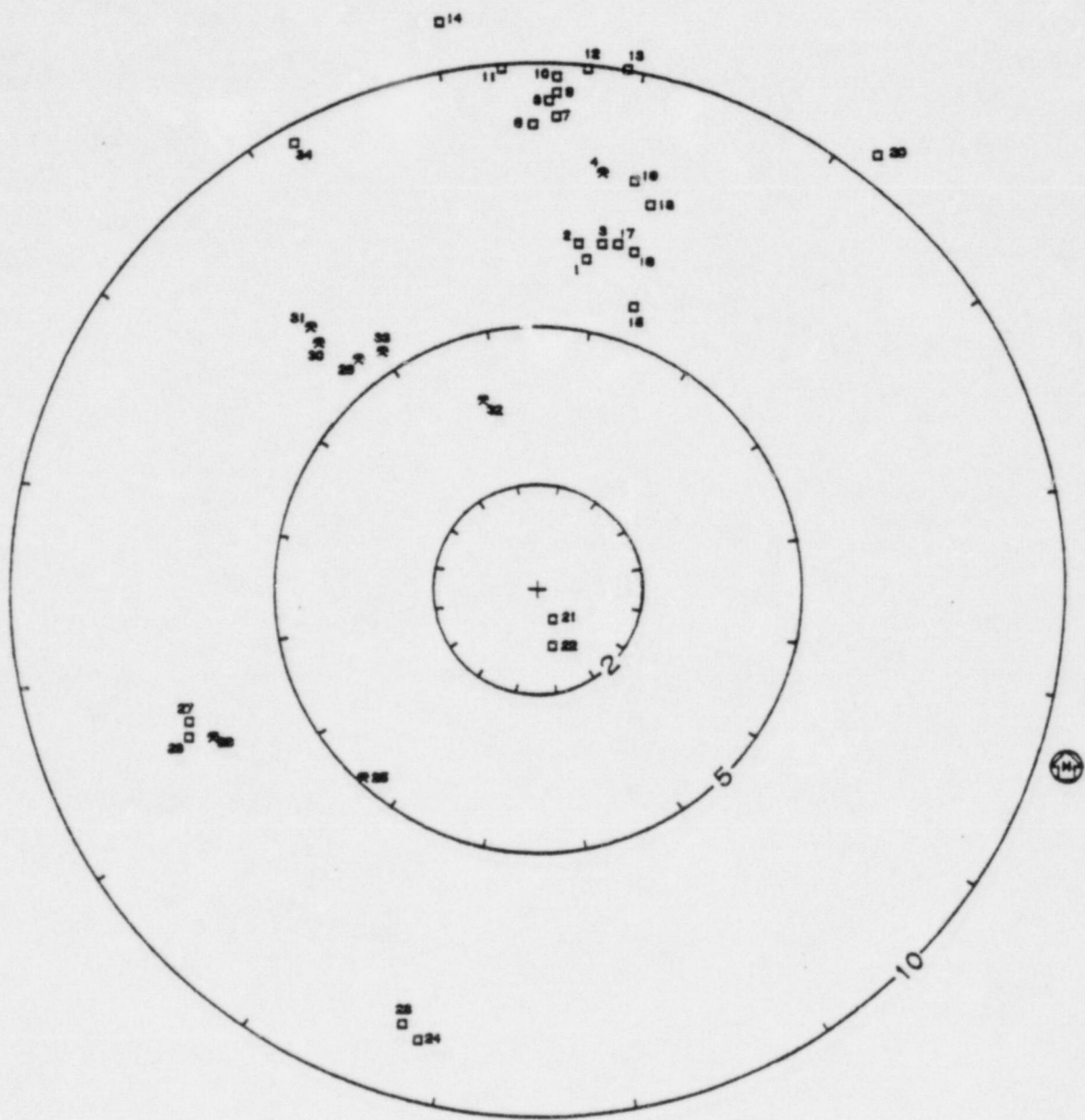
McGuire/Lakehurst Restricted Area	40° 00' 00"	74 30 00
Warren Grove Re- stricted Area	39 42 30	74 23 00

Air Lanes

Victor Air Lane 16  
Victor Air Lane 229  
Victor Air Lane 44  
Victor Air Lane 312  
New York Air Route 838 (Military Training Route)

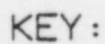
Source: NJ Dept. of Transportation, Div. of Aeronautics

\* Numbers correspond to those in Figure 2.2-2



<p>GPU NUCLEAR CORPORATION OYSTER CREEK NUCLEAR GENERATING STATION UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>LAND USE SURVEY INDUSTRIES, 10 MILE RADIUS</p>	
	<p>REV. 0, 12/84</p>	<p>FIGURE 2.2-1</p>











-  - Airport
-  - Military Airstrip
-  - Heliport
-  - Commercial Air Lane
-  - Military Air Route
-  - Restricted Area

FIGURE 2.2-2

P-428



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

WM DOCKET CONTROL  
CENTER

**ACTION**

'86 AUG -1 A8:35

Aug. 1  
'86 JUL 32 A8:33

EDO PRINCIPAL CORRESPONDENCE CONTROL  
-----

FROM:

DUE: 08/19/86

EDO CONTROL: 001996  
DOC DT: 07/25/86  
FINAL. REPLY:

LEONARD T. CONNORS, JR.  
JEFFREY W. MORAN  
NEW JERSEY SENATE

TO:

CHAIRMAN ZECH

FOR SIGNATURE OF:

\*\* PRIORITY \*\*

SECY NO: 86-781

CHAIRMAN

DESC:

ROUTING:

REQUEST INFO ON SITING OF HAZARDOUS WASTE  
FACILITIES NEAR NUCLEAR POWER PLANTS, PARTICULARLY  
OYSTER CREEK

STELLO  
ROE  
REHM  
SNIEZEK  
DENTON  
GCUNNINGHAM  
MURLEY  
KERR, SP

DATE: 07/31/86 *NRR*  
ASSIGNED TO: NMSS *HOLAHAN* CONTACT: DAVIS

SPECIAL INSTRUCTIONS OR REMARKS:

*rec'd 7/31/86 @ 3pm*

NRR RECEIVED: 08/04/86  
ACTION: ORAS - HOLAHAN  
NRR ROUTING: DENTON/VOLLMER  
PPAS  
MOSSBURG/TOMS

**WM Action**  
Due to NMSS Director's Office  
By **8/7/86**

WM Record File  
118.1

WM Project 84  
Docket No. \_\_\_\_\_  
PDR ☒  
LPDR

Distribution:  
REB MJB JJ Surmeyer  
JOE RDM SBilham  
(Return to WM, 623-SS) JLinchan Sae

OFFICE OF THE SECRETARY  
CORRESPONDENCE CONTROL TICKET

PAPER NUMBER: CRC-86-0781                      LOGGING DATE: Jul 29 86

ACTION OFFICE: EDO

AUTHOR: L.T. Connors

AFFILIATION: NJ (NEW JERSEY)

LETTER DATE: Jul 25 86              FILE CODE: ID&R-5 Oyster Creek

SUBJECT: Req assistance in siting of hazardous waste  
disposal or storage facilities for Oyster Creek

ACTION: Signature of Chm & Comm Review

DISTRIBUTION: RF

SPECIAL HANDLING: None

NOTES:

DATE DUE: Aug <sup>13</sup>~~12~~ 86

SIGNATURE: .                      DATE SIGNED:

AFFILIATION:

Rec'd Off. EDO

Date 7-30-86

Time 4:20 p