



ESSEX BOARD of selectmen

TOWN HALL • MARTIN STREET • ESSEX, MASSACHUSETTS 01929

July 11, 1989

Advisory Committee on Reactor Safeguards
Nuclear Regulatory Commission
Washington, D.C. 20555

Sirs:

It is our understanding that you have statutory authority to intervene as a party in reactor licensing hearings to raise any safety related issues. We ask that you intervene in the Seabrook Reactor proceedings to require resolution of the following hazardous reactor operating procedures which, if allowed, will cause predictable and permanent damage to the Town of Essex.

The Essex River Estuary is one of seven marine estuaries which form a series of interconnected pristine tidal marshes, coastal islands and barrier beaches extending continuously from Seabrook, NH, to Gloucester, MA, fourteen miles south. Contamination of any portion of these marshes will spread by tidal action to all portions.

Operating discharges to air and ocean from the Seabrook Reactor, which is sited within the northerly portion of these marshes, will accumulate in these marshes causing long-lived isotopes to enter nutrient cycles. These unstable radioactive particles being ingested or inhaled alter cell tissue and genetic coding in plants, humans, animals and marine micro-organisms causing genetic deformation, cancer and other disability.

The Town of Essex will suffer irreparable injury by reason of permanent contamination caused by the following unresolved reactor safety issues:

- 1) Venting of fission gases to the atmosphere in the form of "planned operating emissions" will release partially decayed gases, iodines and other unstable particles which will cool and fall over coastal temperature interfaces within the first hour after

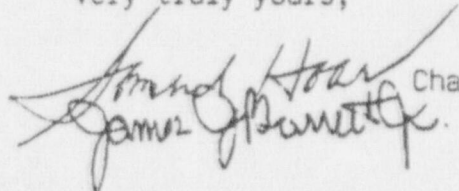
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- 8) Corrosion of heat exchange pipes can be expected to allow exchange of radioactive materials to contaminate ocean coolant discharged to ocean.
- 9) Each fuel cycle releases gases produced by fission of 100 tons of uranium to the atmosphere.
- 10) Evacuation is not safety. It is extreme hazard. Being forced out of one's home onto dangerous highways during radiological contamination and being unable to return home due to permanent contamination is a violation of basic constitutional rights.

We are not required by our constitution to suffer fatal injury to demonstrate damage to life and property. Nor can any government agency impose upon persons circumstances requiring loss of life and property.

We consider contamination of properties and threat to life caused by operating discharges from Seabrook reactor to be taking of land without due process and a violation of our constitutional rights. We ask your intervention on our behalf.

Very truly yours,

 Chairman

BOARD OF SELECTMEN
TOWN OF ESSEX, MASSACHUSETTS

cc: Atomic Safety & Licensing Board, Boston, MA
Environmental Protection Agency, Boston, MA
Governor of Massachusetts
Attorney General of Massachusetts

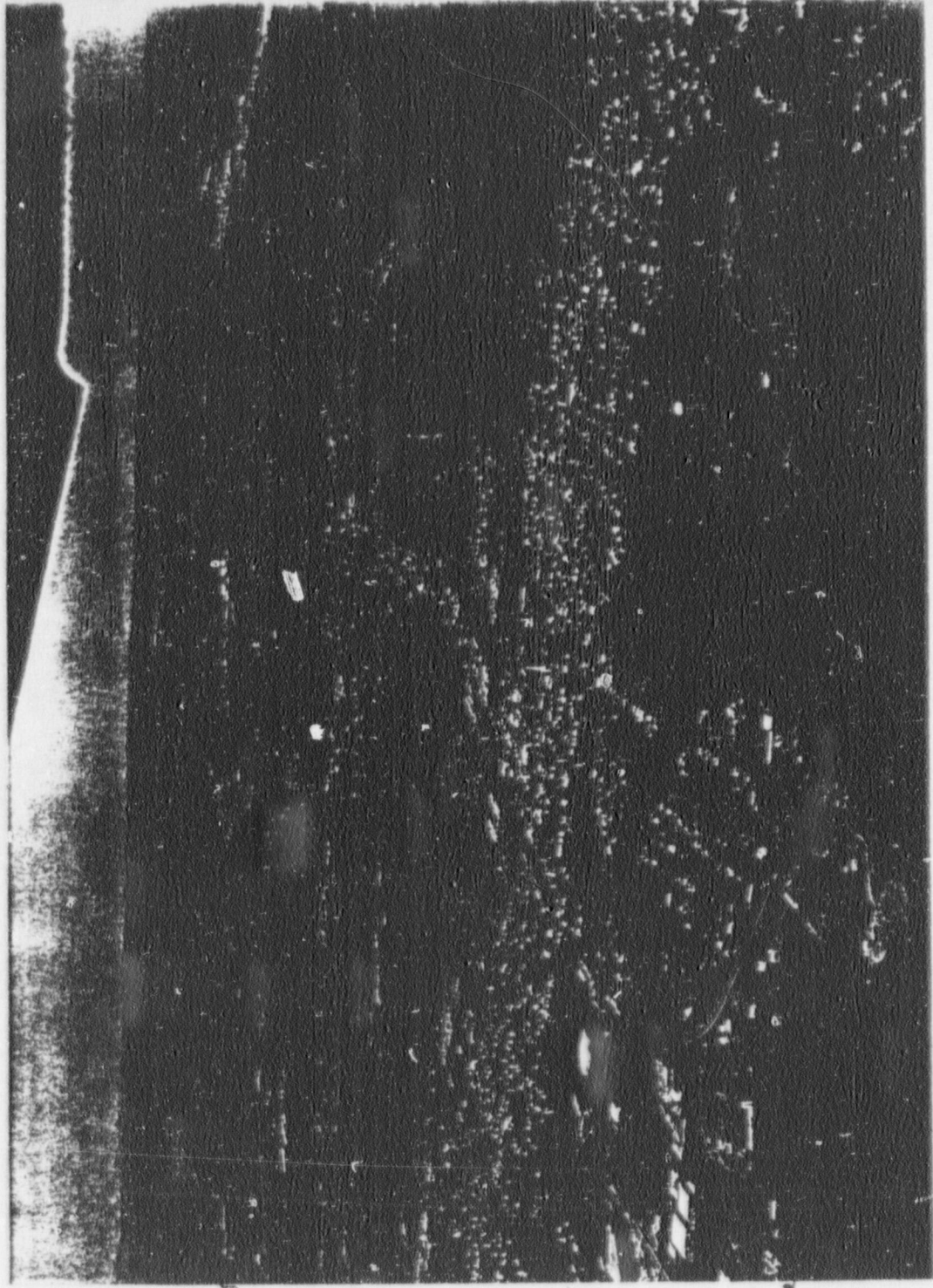
Seabrook Reactor

View from Newburgport, Mass
3-4 miles South

(1)

Showing

Proximity of the reactor to the
marshes at 100-200' distance
these pristine marshes extend
continuously to Colverston.
Mass 14 miles South &
will act as a giant gongge
accumulating radio active
particles emitted with air borne
gases during daily operating
discharge & during
emergency discharge -



Sedbrook Reactor
View from Green Wall
12-14 miles South

(3)

Showing: Little River Estuary
which comprises the same
marshy ground extending
South from Castle Hill &
South to Gloucester Town line
& to Gloucester edge of the estuary

Rte 133 coastal bridge &
single lane highway extending
from Ipswich to Gloucester
in foreground & connecting
British access roads for
Crosses of Winghamstead
Roads to Rte 128 South
to Boston.



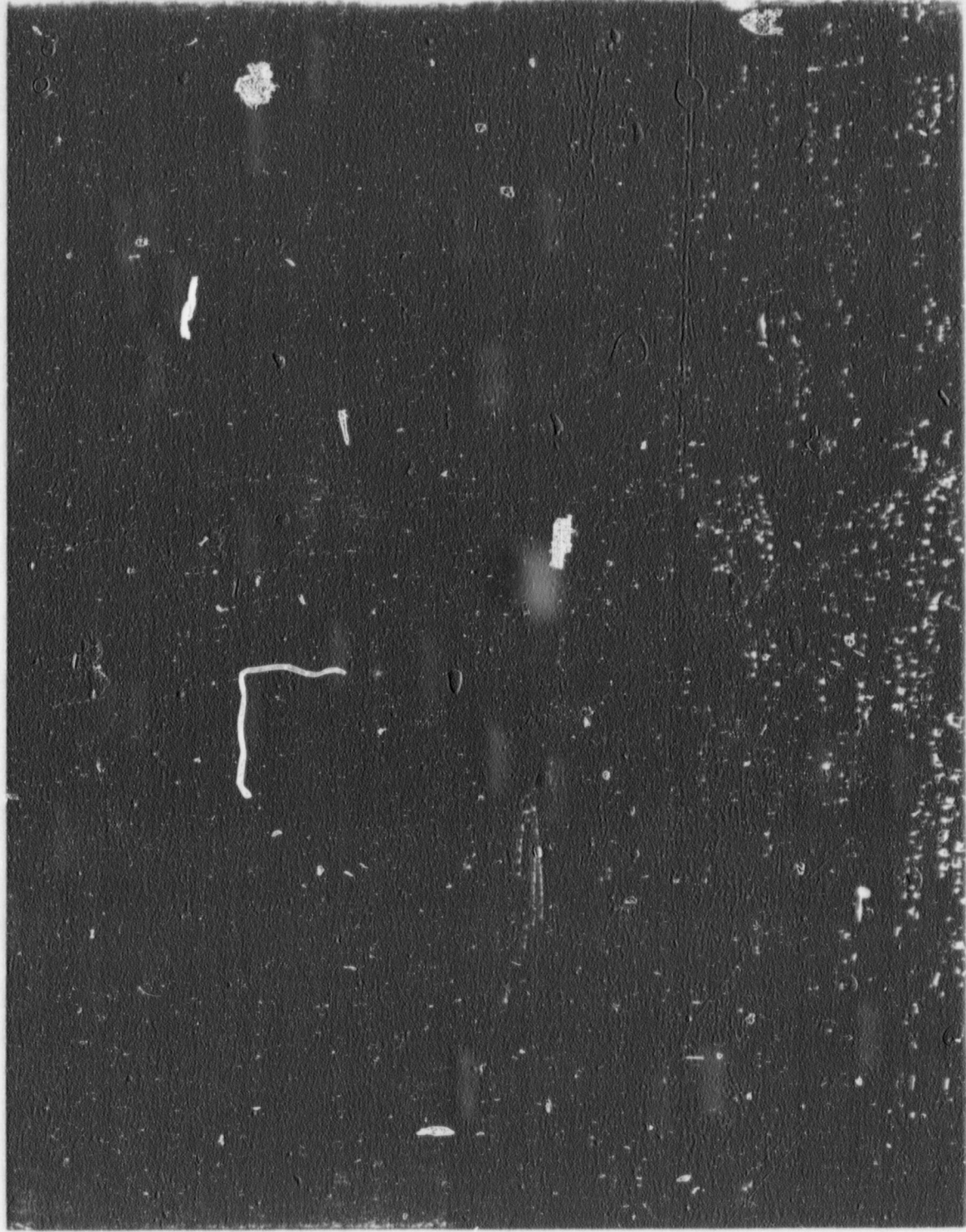
(X) Gloucester Ferry line
meets Essex of Ipswich
Ferry lines at 13 miles
in water to Washington

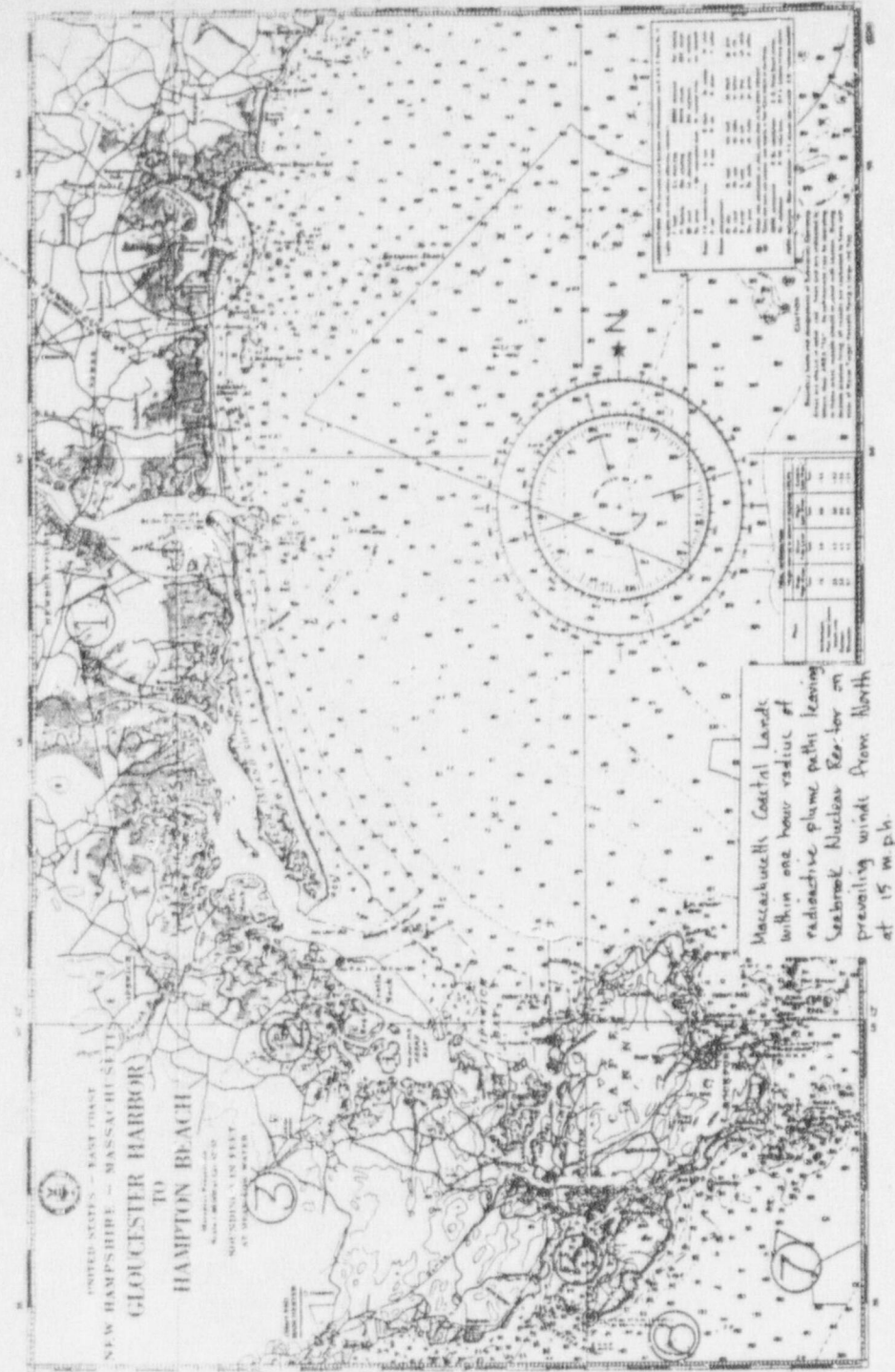
Sabrook Reactor
View from Gloucester
14 - 15 miles South

(5)

Channing:

Ple 128 Bridge connecting
the island of Cape Ann of
Town of Gloucester to the
mainland of Newbury
30,000 - 60,000 persons
to be evacuated over one
bridge to mainland on
Ple 128 which leads
South to Boston.





General View of Seabrook Reactor.

Key to photos & map:

- ① View from Newburgport, Mass. Reactor is at upper center of photo.
- ② View from Castle Hill & Cape Beach, Mass.
- ③ View from Town of Essex, Mass. Reactor at upper left in photo.
- ④ View from Town of Manchester, Mass. Reactor on horizon upper left photo.
- ⑤ View from Gloucester Harbor, Mass. Weymouth Beach, Cape Beach, and Seabrook Beach, Reactor is on right side of photo.
- ⑥ View from Gloucester Harbor, Mass. Reactor on left side of photo.
- ⑦ View from Town of Rockport, Mass. Reactor upper right in photo.
- ⑧ View of Cape Ann, an island having one bridge to main land & year-round population of 30,000 & major summer population increase. Town of Rockport is on seaward tip of Cape Ann.

Submitted to:

Atomic Safety & License Board

Judge Ivan Smith

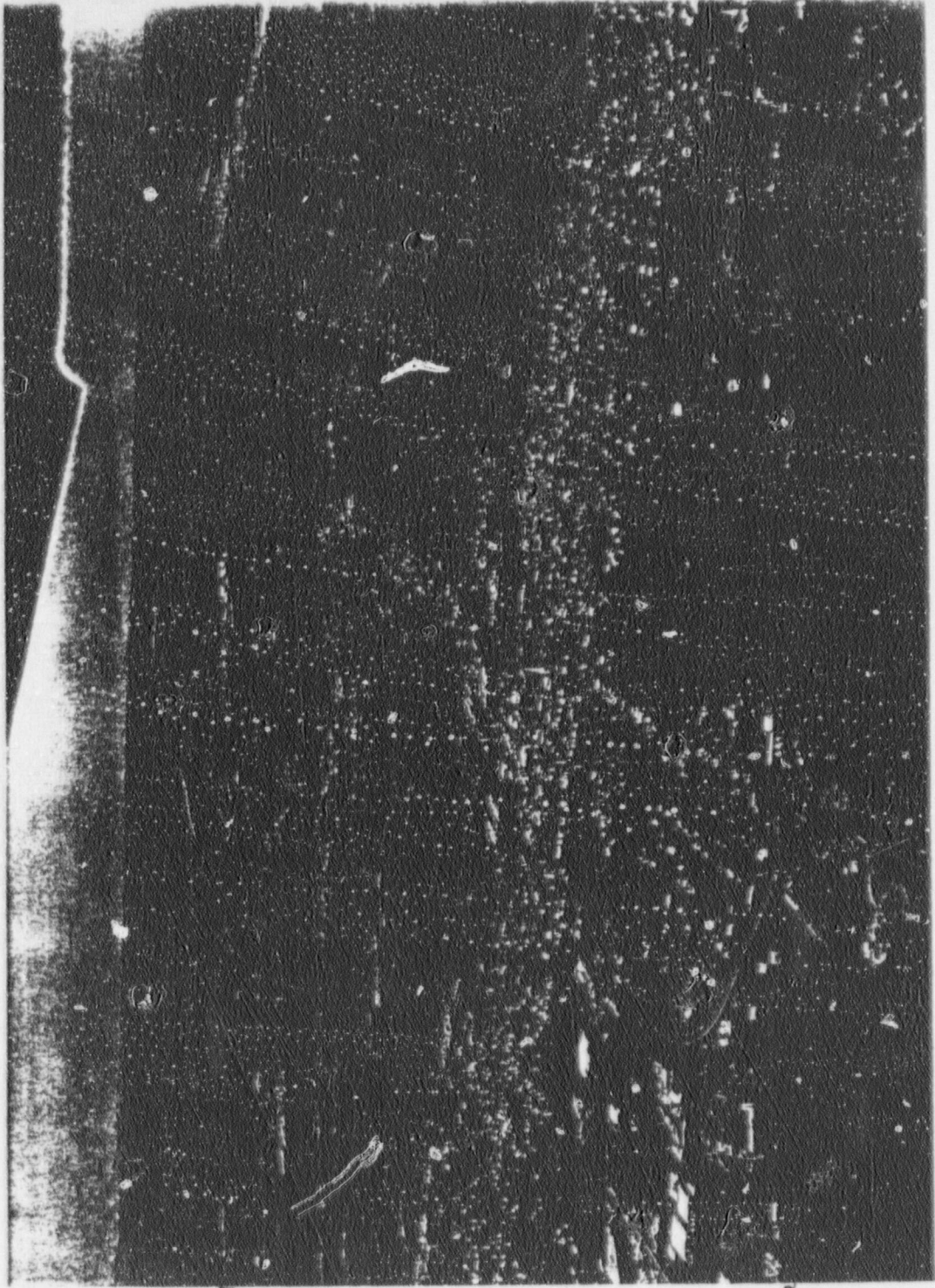
ASLB Hearings

O'Neill Building, Boston, Mass.

Seabrook Reactor

View from Newburyport, Mass
3-4 miles South

(1)



Showing:

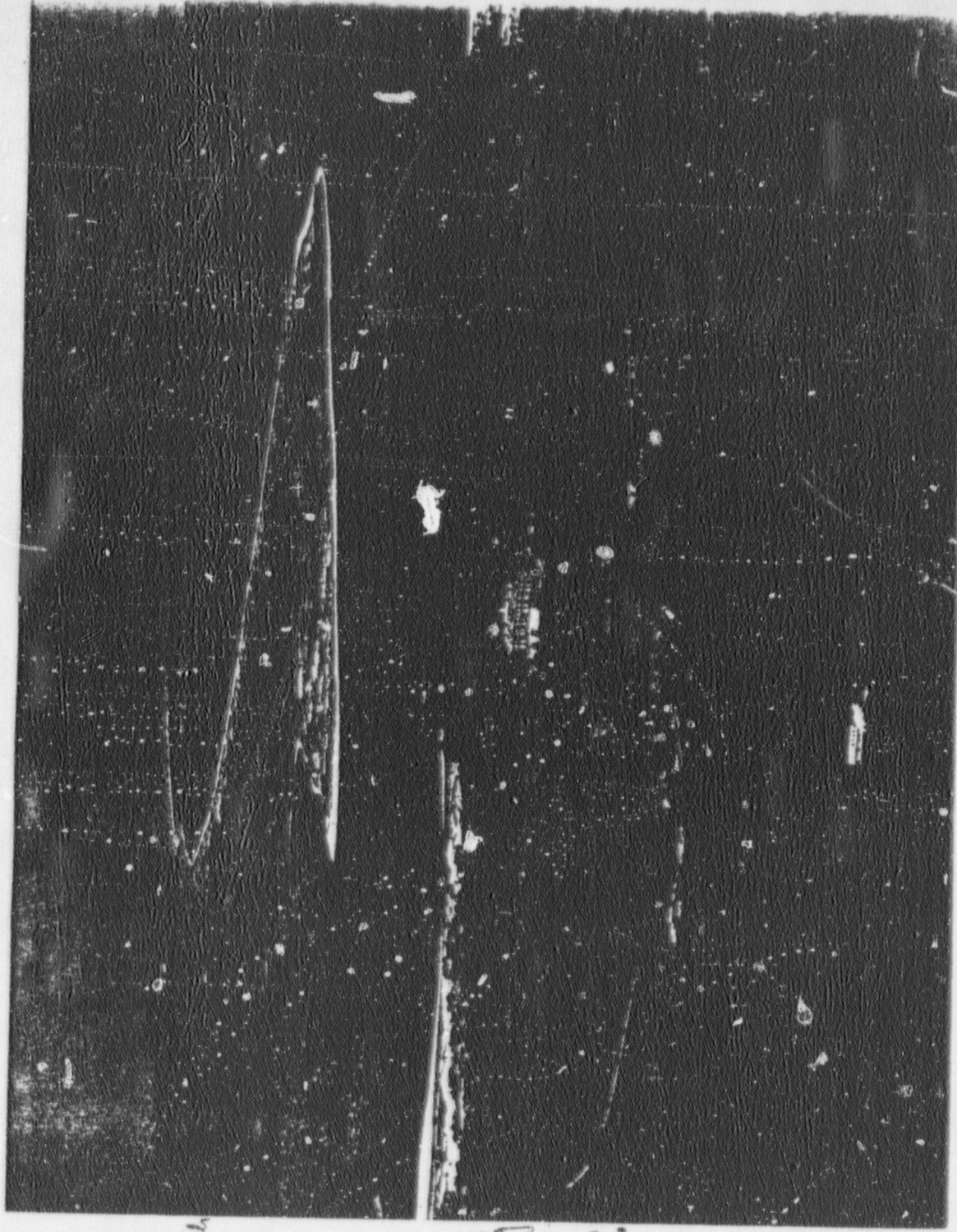
Proximity of the reactor to the
marshes of 100-200' distance
These pristine marshes extend
continuously to Colchester.
Less 14 miles South &
will act as a wet sponge
accumulating radio active
particles emitted with air borne
gases during daily operating
discharge & during
emergency discharge -

Seabrook Reactor
View from Castle Hill, Ipswich
11.7 - 12 miles south

(2)

Shoring:
~~Some~~ primitive pier wharves extending
uninterrupted 12 miles south
from Seabrook
Clive's Beach across road in
foreground having a single lane
access road for 10,000-20,000
persons daily

Plum Island Twp at middle
right also having 10-30,000
persons daily +
Entrance to Ipswich Harbor
having thousands pleasure
craft.

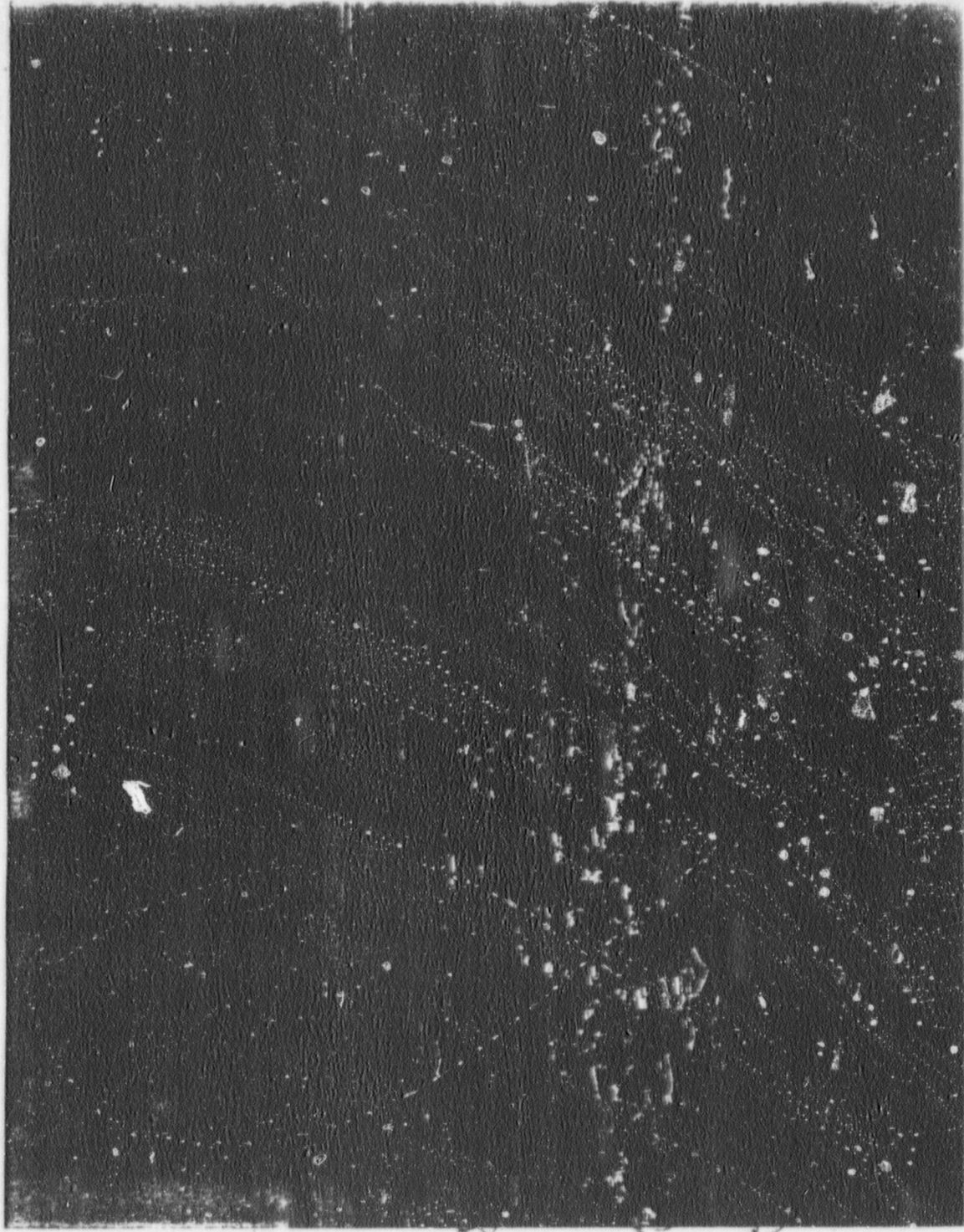


Sedbrook Reaches
View from Essex Mass
12-14 miles South

3

Showing: Essex River Estuary
which comprises the lower
marshy portion extending
South from Castle Hill &
South to Gloucester Town line
& to Gloucester edge of the estuary

Rte 33 coastal bridge of
single lane highway extending
from Ipswich to Gloucester
to foreground & connecting
British access roads for
Crane's & Vineyard
Reaches to Rte 128 South
to Boston

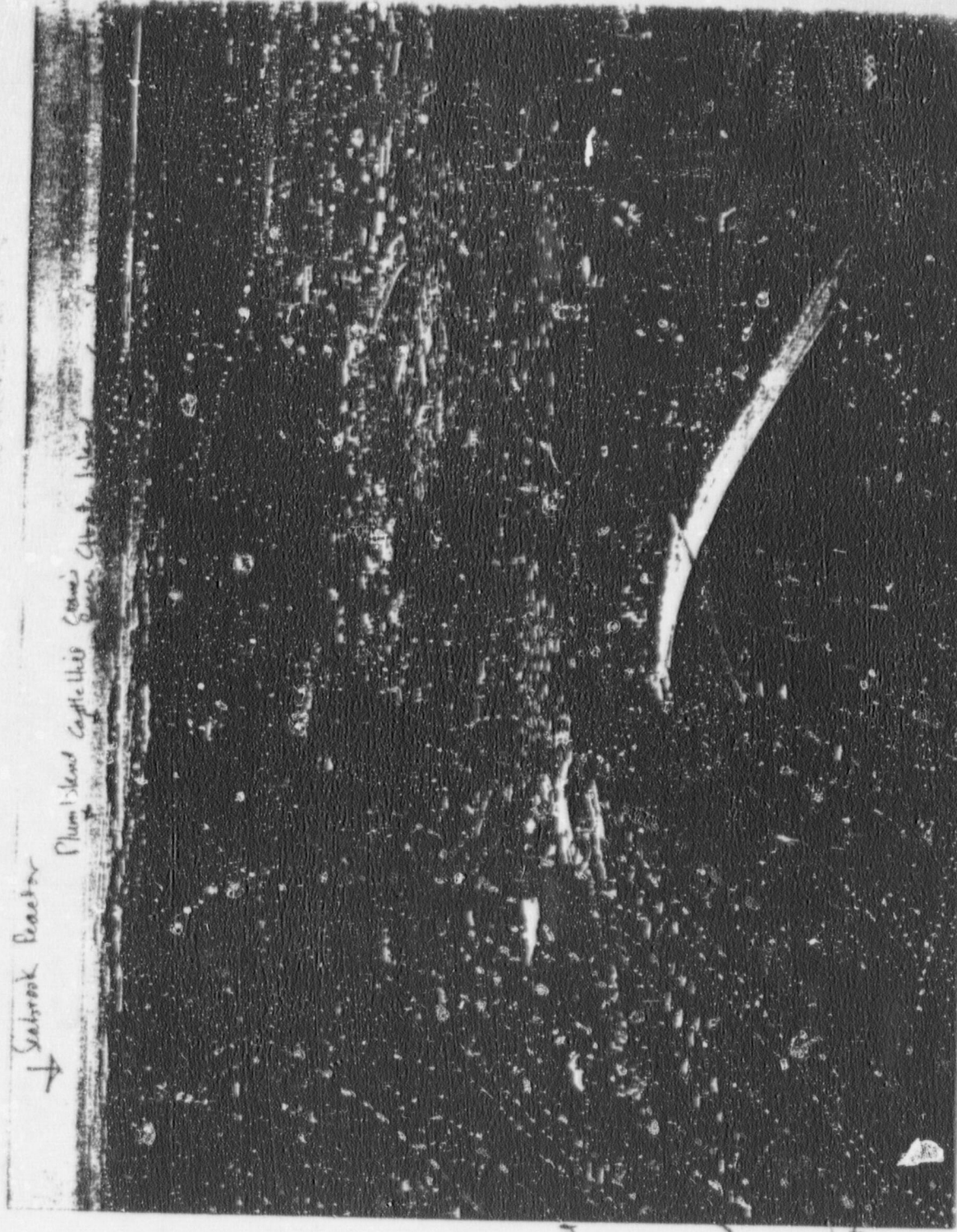


Seabrook Beach
View from Manchester, Mass.
16-17 miles South

A

Shoring: Some primitive beaches
extending continuously from
Seabrook Beach South to
Charleston Town line & coastal
islands & barrier beaches in
1/2 inch & less.

Manchester Beach in foreground
having pleasure vehicles &
Singing Beach with 1000-2000
persons daily in a single line
across road off photo to right



⑧ Gloucester Town line
meets Cape of Plymouth
Town line at 13 miles
on water to the Washington line

Salmon River
View from Gloucester
14 - 15 miles south

(5)

Circling:

Rte 128 Bridge connecting
the island of Cape Ann &
Town of Gloucester to the
mainland. Having
30,000 - 60,000 passengers
to be evacuated over one
bridge to mainland on
Rte 128 which leads
South to Boston.

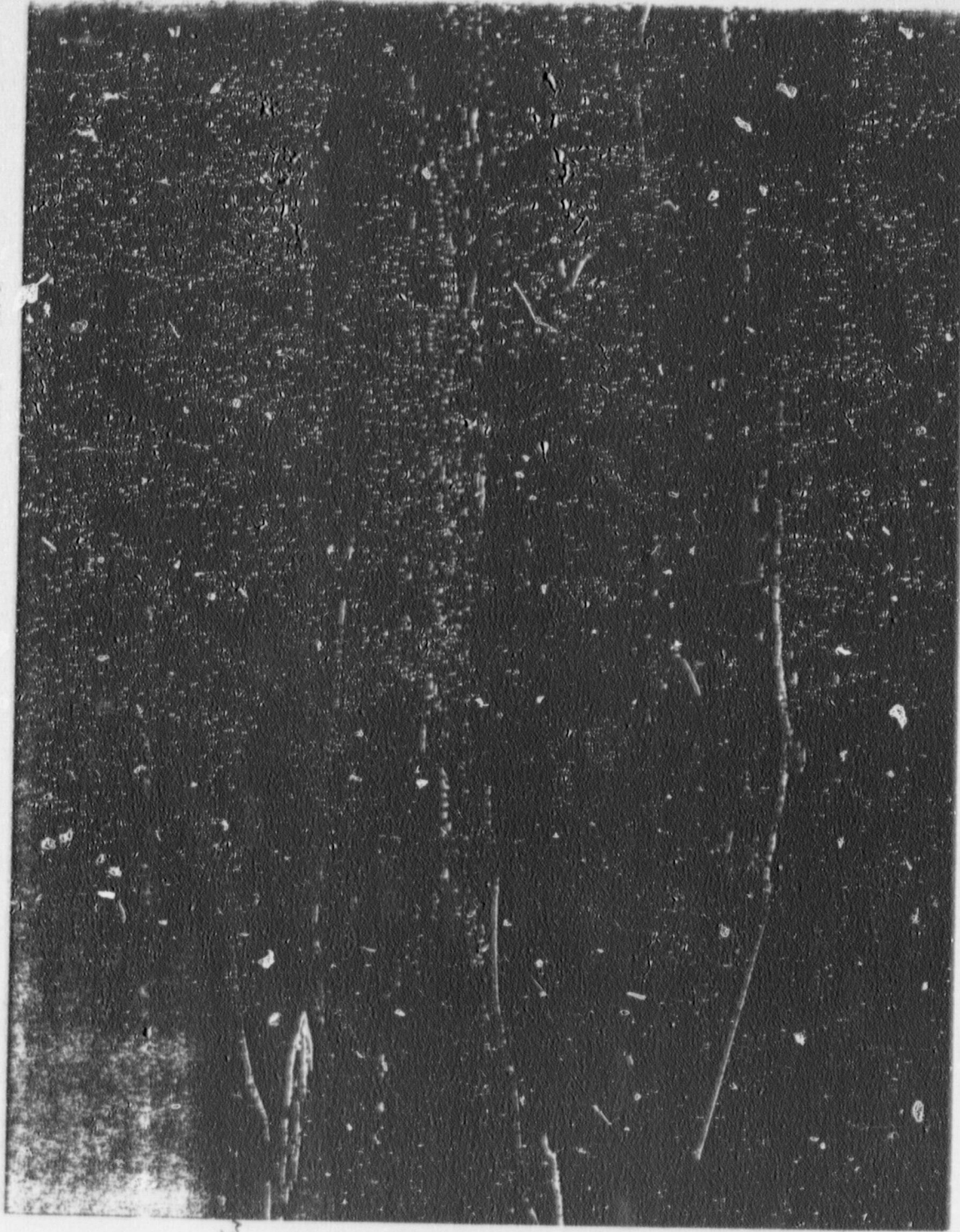
* Gloucester, Mass. 1 pm
 Town Green meets on Essex
 highway onto Harbor

Seabrook Beach
 View from Diggins Beach
 over Gloucester Harbor
 15 - 17 miles south

(6)

Showing: Continuous pristine
 marshes, coastal islands, and
 barrier beaches extending
 from Seabrook NH to
 Gloucester, Mass. - which
 flood daily from tides
 arriving from Seabrook
 Harbor not far from which
 will receive daily airborne
 & harbor operating discharge.

Gloucester Harbor having
 thousands of commercial &
 pleasure vessels & boats.



UNITED STATES - EAST COAST
NEW HAMPSHIRE - MASSACHUSETTS
GLoucester Harbor
TO
HAMPTON BEACH
Scale: 1:50,000
SOUNDINGS IN FEET
AT LOW WATER

Massachusetts Coastal Lands
within one hour radius of
radioactive plume path leaving
Seabrook Nuclear Reactor on
Savannah winds from North

UNITED STATES - EAST COAST
NEW HAMPSHIRE - MASSACHUSETTS
GLOUCESTER HARBOR
TO
HAMPTON BEACH
Scale: 1 inch = 10 miles.
1 inch = 100 feet
AT SEASIDE WATERS

Massachusetts Coastal Lands
within one hour radius of
radioactive plume path leaving
Seabrook Nuclear Reactor on
prevailing winds from North

-
- GLoucester Harbor
TO
HAMPTON BEACH
- Scale 1:50,000 (1 inch = 1 mile)
SOUNDINGS IN FEET
AT MEAN LOW WATER
- MASSACHUSETTS Coastal Lands
within one hour radius of
radioactive plume path leaving
Seabrook Nuclear Reactor on
Savannah winds from North

[illegible]

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
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at 15 m. ph.

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of

PUBLIC SERVICE COMPANY OF NEW
HAMPSHIRE, ET AL.
(Seabrook Station, Units 1 and 2)

Docket No.(s) 50-443/444-DL

CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing LIMITED APPEARANCE DTD 8/11/89 have been served upon the following persons by U.S. mail, first class, except as otherwise noted and in accordance with the requirements of 10 CFR Sec. 2.712.

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Docket No. (s) 50-443/444-DL
LIMITED APPEARANCE DTD 8/11/89

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Docket No. (s) 50-443/444-DL
LIMITED APPEARANCE DTD 8/11/89

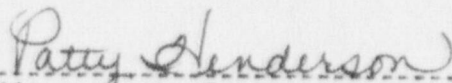
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ATTN: Janet Coit
United States Senate
Washington, DC 20510

Dated at Rockville, Md. this
7 day of September 1989



Office of the Secretary of the Commission