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Consideration on Environmental Impacts on Temporary Storage of Spent Fuel After Cessation of Reactor Operation

Comment On: NRC-2012-0246-0001
Consideration of Environmental Impacts of Temporary Storage of Spent Fuel After Cessation of Reactor Operation

Document: NRC-2012-0246-DRAFT-0088
Comment on FR Doc # 2012-26295

86

10/25/2012
77FR 65137

Submitter Information

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Organization: State of New York

General Comment

See attached file(s)

Attachments

2012 11 14 PowerPoint NYSOAG

SUNSI Review Complete
Template = ADM-013

E-RIDS = ADM-03
Add = S. Lopez (SLL2)

Storage of Spent Nuclear Fuel

&

Waste Confidence Rulemaking

November 14, 2012

Public Scoping Meeting

Rockville, MD

Presentation of the State of New York

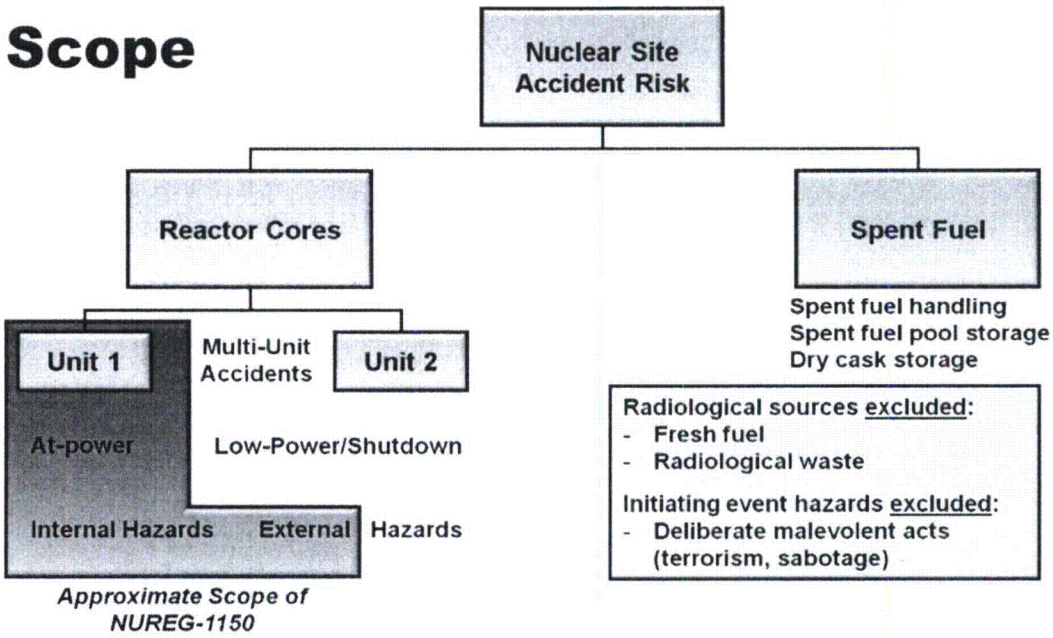
High Density Spent Fuel Pool

•Site-Specific Impacts

November 14, 2012

Option 3: Site Level 3 PRA

Scope



Source: Figure taken from slides prepared by NRC Staff: Nuclear Regulatory Commission Office of Nuclear Regulatory Research, *Severe Accidents and Options for Proceeding with Level 3 PRA Activities*, ML11209B927 (July 28, 2011).

Consideration of Other Site Radiological Sources

To be complete, estimation of total site accident risk should also include an assessment of the risk from accidents involving other site radiological sources, to include spent nuclear fuel.

Source: Nuclear Regulatory Commission, Options for Proceeding with Future Level 3 Probabilistic Risk Assessment Activities, SECY-11-0089, at 6, ML11090A042 (July 7, 2011).

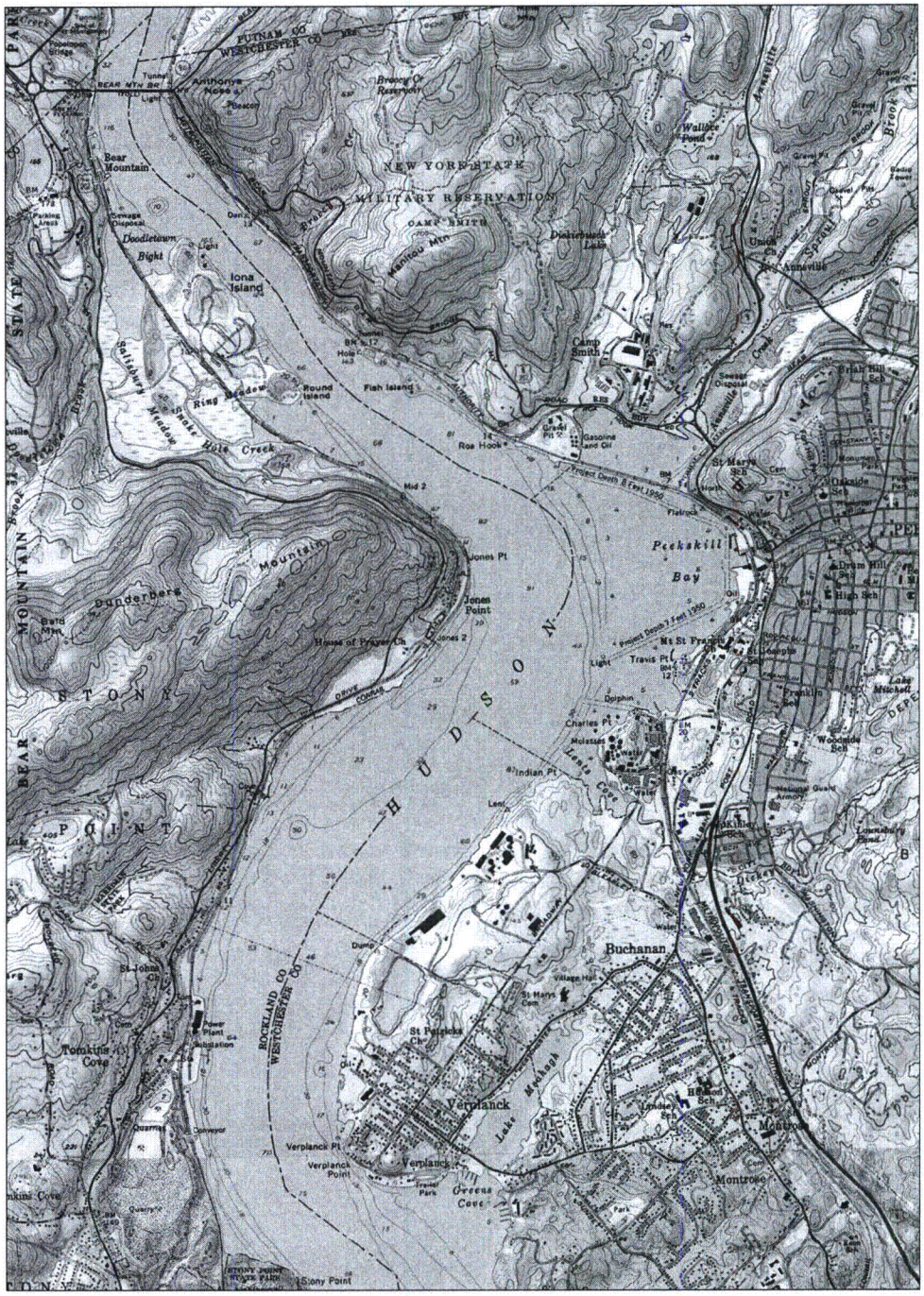
Fukushima Daiichi Summary Display

Priority	Unit	STATUS AS OF 06:00 EDT (19:00 Local) - 03/16/2011
4	1	**Core Status** - Severe core damage (based on the amount of hydrogen generated). Radiation has been released. Possible RCS breach. (GE) Sea water injection to RPV.
		Containment - Primary apparently intact. Secondary Containment destroyed.
		Spent Fuel Pool – No information on SFP status.
3	2	**Core Status** – Severe core damage likely. Radiation release has occurred. Possible RCS breach (GE). Sea water injection to RPV.
		Containment - Primary apparently intact. Secondary Containment lost.
		Spent Fuel Pool – No information on SFP status. Some reports attribute smoke/steam coming from the SFP.
2	3	**Core Status** - Severe core damaged (based on the amount of hydrogen generated). Radiation has been released. Possible RCS breach. (GE). Sea water injection to RPV.
		Containment - Primary apparently intact. Secondary Containment destroyed.
		Spent Fuel Pool – May be in the same condition as Unit 4 SFP below. (Monninger)
1	4	**Core off-loaded to Spent Fuel Pool.** Secondary Containment destroyed. Walls of SFP have collapsed. No SFP cooling is possible at this time. TEPCO requests recommendations. (Monninger)
5	5	**Shutdown since January 3, 2011.** Core loaded in RPV. RPV/SFP levels lower than normal and decreasing. Unit 6 D/G providing make-up water to Unit 5. (IAEA).
6	6	**Shutdown since August 14, 2010.** Core loaded in RPV. RPV/SFP levels lower than normal. Unit 6 D/G providing make-up water to Unit 5. (IAEA).

Source: NRC ADAMS Accession No. ML12080A196 (frame 259 of 782) (placed on public ADAMS on March 23, 2012) (highlight added).

Site-Specific Impacts Related to On-Site Storage of Spent Nuclear Fuel at the Indian Point Facilities, Westchester County, NY

November 14, 2012


NEW YORK STATE
MILITARY RESERVATION
CAMP SMITH
Bear Mountain
Doodletown Bight
Iona Island
Round Island
Fish Island
Rose Hook
Jones Pt
Jones Point
House of Prayer Ch
Dunderberg
Mountain
Peekskill Bay
Buchanan
Verplanck
Verplanck Pt
Verplanck Point
Tomkins Cove
St John Ch
Stony Point
Montrose
Indian Pt
Charles Pt
Travis Pt
Dolphin
Wallace Pond
Camp Smith
Gasoline and Oil
Mt St Francis
Lake Meahagh
Greens Cove
Lents Cove
Grove Cove
Salisbury Meadow
Ring Meadow
Hole Creek
Manitou Mtn
Dickerman Lake
Bracey Cr Reservoir
Anthonys Nose
Tunnel
Light
Beacon
Dam
Hole
Mid 2
Jones 2
Project Depth 8 Feet 1950
Project Depth 7 Feet 1950
Pietrock
Dump
Village Hall
St Marys Cem
St Peters Ch
Power Plant
Substation
Quarry
Conveyor
Trailer Park
Park
Oil
Water
Gas
Lake Michel
Franklin
Woodside Sch
Oakside Sch
St Mary's Sch
Drum Hill
High Sch
Union Ch
Annesville
Brian Hill Sch
Sewage Disposal
Gravel Pit
Rock Pit
Hole
Hut
Tank
Bldg
Ruins
Cemetery
Cem
Sch
Ch
Pt
Cr
Creek
Brook
Point
Mountain
Bear
Stony
Hudson
Rockland Co
Westchester Co
Putnam Co
Bear Mtn Br
Annesville
Spring Brook
Lake Meahagh
Lents Cove
Grove Cove
Salisbury Meadow
Ring Meadow
Hole Creek
Manitou Mtn
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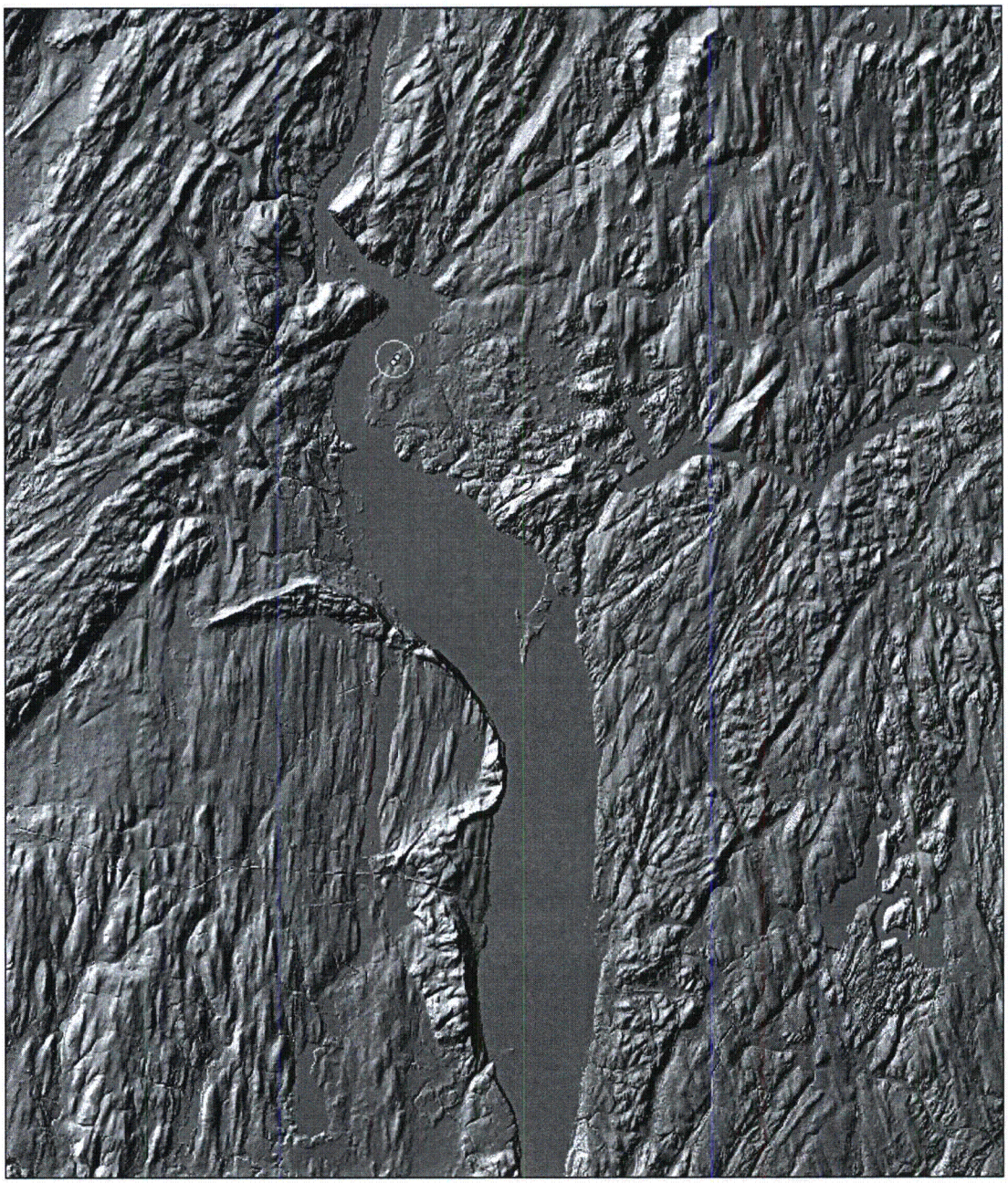


◦ Reactors

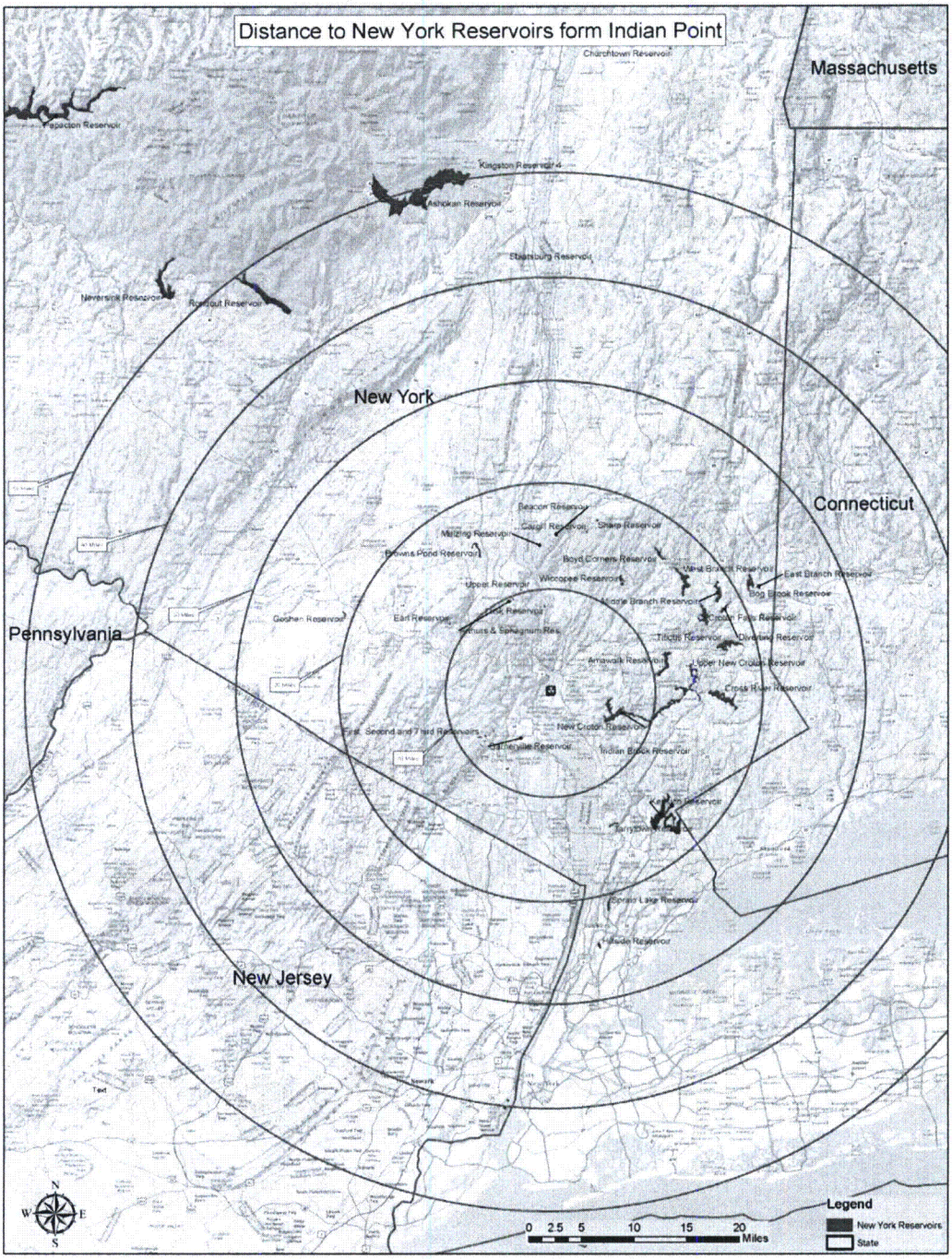
3 1.5 0 3 Miles

N
W E
S

Hillshade from USGS 10 meter digital elevation model
(Prepared with ESRI GIS Software)

STATE OF NEW YORK
EXCELSIOR
ATTORNEY GENERAL

November 14, 2012



November 14, 2012

During the May 8, 2012 site visit to the Indian Point facilities by the Atomic Safety and Licensing Board, Entergy representatives made the following statements about Entergy's plans for spent nuclear fuel at Indian Point:

(A) All of the spent fuel generated during since the start of commercial operation of Indian Point Unit 3 remains in the Indian Point Unit 3 spent fuel pool (as of the date of the site visit);

(B) Entergy has no current plans to construct an additional dry cask storage area (in addition to the existing dry cask storage area); and

(C) At the end of operation under any 20-year extension of the current operating licenses, Entergy estimates that the existing dry cask storage area would be filled to capacity and that the Indian Point Unit 2 spent fuel pool and the Indian Point Unit 3 spent fuel pool would be filled to capacity as well.

Source: State of New York, Riverkeeper, Inc., and Hudson River Sloop Clearwater's Joint Contention NYS-39/RK-EC-9/CW-EC-10 Concerning the On-Site Storage of Nuclear Waste at Indian Point, ¶ 32 (Jul. 8, 2012), ML12190A002.

November 14, 2012

- Alternatives
- Mitigation

November 14, 2012

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November 14, 2012