

U.S. Operators' Perspective on Nuclear Liability

OECD/NEA Workshop

Nuclear Damages, Liability Issues, and Compensation Schemes

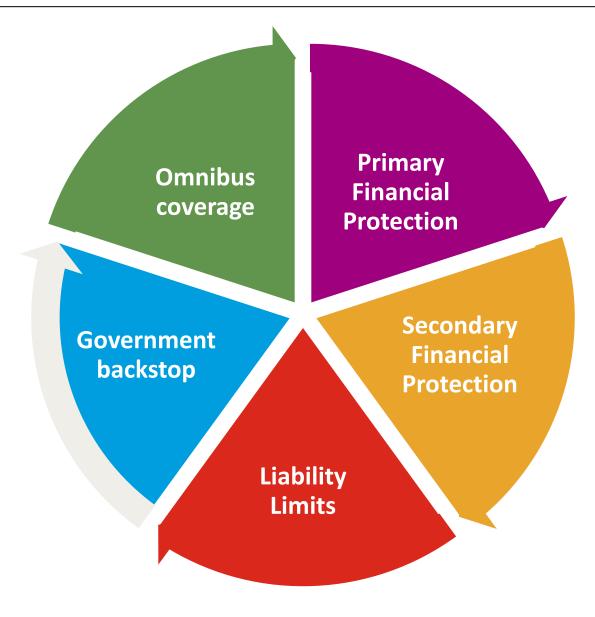


Overview

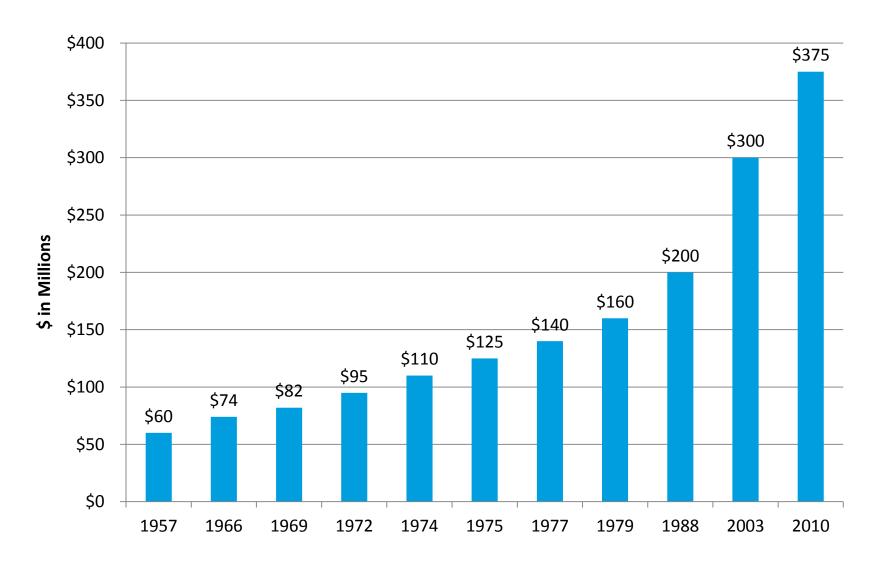
- Overview of Nuclear Liability in the U.S.
- Nuclear Liability in Practice
- Coverage for Other Risks
- Topics of Interest to U.S. Operators

Price-Anderson Act Overview

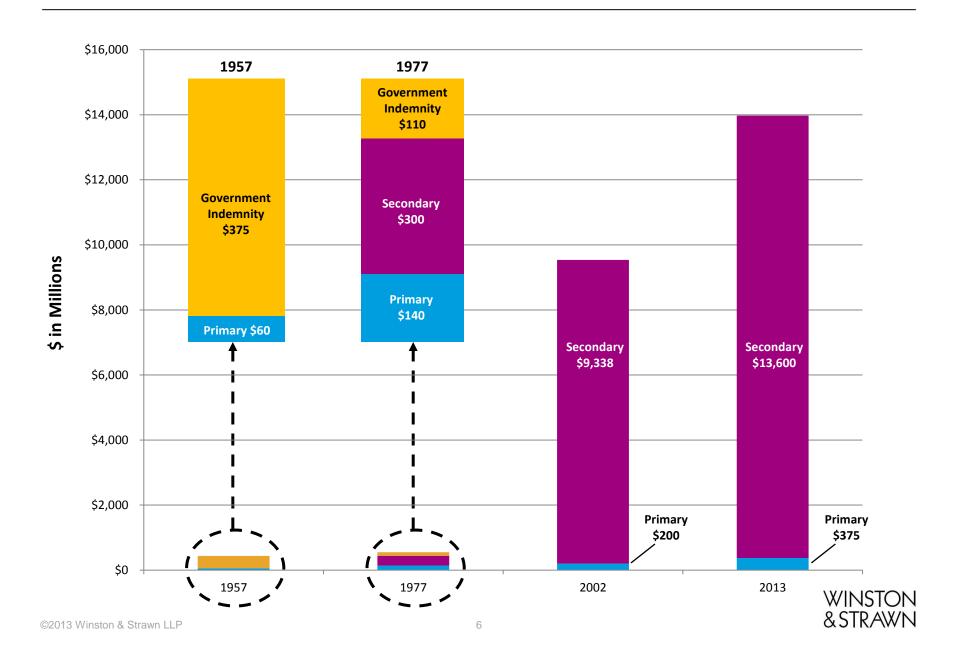
Comprehensive Nuclear Liability Scheme



Primary Financial Protection Policy Limits



Total Amount of Coverage Available



Price-Anderson in Practice

American Nuclear Insurers (ANI)

Joint Underwriting Association

- Provide nuclear liability insurance to U.S. commercial nuclear risks
- Reinsurance for other nuclear pools and mutual insurers

Guidelines

- Rating of "A-" or better
- Policyholders' surplus (PHS) >\$100 million
- <10% of PHS committed to ANI's Domestic Syndicate

Policies

- Insures every nuclear power plant in U.S.
- Insures other fuel cycle facilities
- Insures other nuclear suppliers and transporters

Claim History

According to ANI, between 1957-2012:

Claims Defended 237

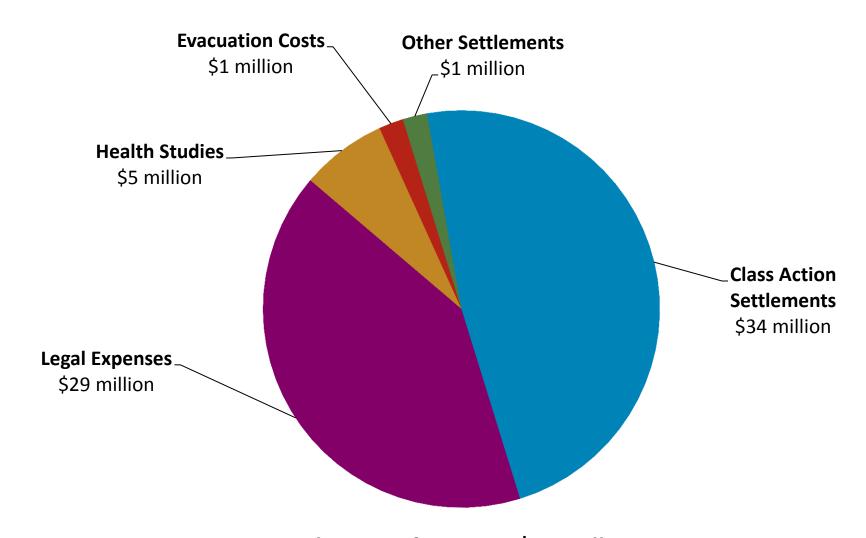
Paid Indemnity \$65.2 million

Paid Expense \$288.4 million

Total Paid \$353.6 million

- Claims asserted by public typically involve normal plant operations
- Claims asserted by workers typically involve alleged exposure incidents
- Three Mile Island is only claim involving a significant nuclear incident

Total Payments for TMI Accident



Total Payout for TMI = \$71 million



Coverage for Other Risks



Summary of Coverage

Primary and Secondary Insurance

- Public Liability
- Excludes "Acts of War" but covers terrorism
- Includes offsite environmental for ENO or transport accident

Required Property Insurance

- Losses to nuclear facility, including land, buildings, equipment
- On-site environmental clean-up

Other Policies

- Accidental Outage
- Master Workers Policy
- Suppliers' and Transporters' Policy
- Offsite environmental cleanup (non-ENO)

Nuclear Property Insurance (On-Site)

- On-site property insurance required for each reactor site
 - Policy from Nuclear Electric Insurance Limited ("NEIL")
 - Provide all-risk property insurance, including insurance for on-site environmental clean-up costs
 - Priority to stabilizing damaged reactor and cleaning site

Coverage	Required	Available
NEIL Primary Property	\$500 million	\$500 million
NEIL I (Accidental Outage)	\$0	\$490 million
NEIL II (Excess Property and D&D)	\$506 million	\$2.25 billion

Other Types of Claims

Worker claims

- Licensee employees covered by worker's compensation as exclusive remedy
- Other workers (employees of vendors and suppliers)
 - Within definition of "public liability" and omnibus coverage
 - Separate Master Worker Policy
- Offsite environmental clean-up costs
 - Not covered by the as-issued Facility Form policy
 - Covered for ENO or transportation accident
 - May purchase separate policy
 - On-site clean-up covered under property policy

Non-Reactor Facilities/Vendors

- For nuclear installations <u>not required</u> to maintain Facility Form policy or indemnity
 - Includes fuel fabrication and conversion facilities
 - Operator may purchase Facility Form policy
 - Liability limit at operator's discretion
- If supplier/vendor provides services/equipment to nuclear facilities:
 - Supplier's and Transporter's ("S&T") policy available
 - Covers products or services at other nuclear facility
 - Excess above Facility Form policy
 - Subject to policy limits

Topics of Interest

Terrorism and Acts of War

- "Public liability" excludes "claims arising out of an act of war", but...
- ANI policies currently cover terrorist attacks
 - On January 1, 2002, increased premiums by 30%
 - Terrorism Risk Insurance Act ("TRIA"): U.S. government program provides reinsurance coverage for terrorist attacks
- NEIL policies cover terrorist attacks
 - Subject to limits for subsequent attack within 12 months
 - War exclusion applies only to overt acts of governments

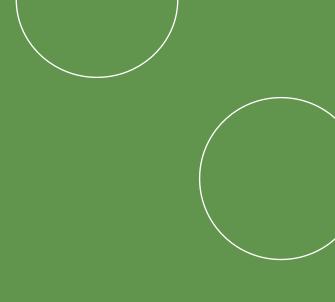
Small Modular Reactors

- Qualify as a single unit
 - Combination of 2 or more facilities at a single site
 - Capacity 100-300 MWe each and < 1300 MWe combined
- Specific costs or formula for reactors < 100 MWe

Output	Units/Site	Primary	Secondary	Indemnity
311 MWe	1	\$375M	\$121M	\$0
311 MWe	2	\$375M/site	\$121M/unit	\$0
125 MWe	1	\$375M	\$121M	\$0
125 MWe	2	\$375M/site	\$121M/site	\$0
125 MWe	4	\$375M/site	\$121M/site	\$0
45 MWe	1	\$50M	\$0	\$500M
45 MWe	12	\$50M	\$0	\$500M
25 MWe	1	\$28M	\$0	\$500M
25 MWe	2	\$28M	\$0	\$500M

Decommissioned Reactors

- Each "licensee" must have primary and secondary financial protection
 - Required for permanently shut down and defueled reactor
 - Even "possession-only" (non-operating) reactors
- NRC has discretion to reduce primary financial protection and eliminate retrospective premium
 - Depends on risk/hazards
 - Full level required immediately after shutdown, reduced over time
- May affect total amount of financial protection



Conclusions

Assessment of Nuclear Liability in U.S.

- Comprehensive liability scheme
 - Reactor operators pay for insurance
 - Government only has role if liability limits exceeded
- Coverage is adequate
 - Primary financial protection never exceeded
 - Public has paid nothing to date
- Significant experience with liability coverage
 - In place for more than 50 years
 - Many examples of coverage in practice, including TMI
- Other risks adequately covered by additional insurance policies



Questions?



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Education

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Tyson Smith is a partner in the firm's Washington, DC and San Francisco offices who has concentrated his legal practice in the area of nuclear energy regulation since 2003.

Mr. Smith represents and provides advice to clients regarding compliance with the regulations of the U.S. Nuclear Regulatory Commission. He has been extensively involved in initial licensing of new nuclear facilities, including commercial power reactors and uranium enrichment facilities. He regularly assists clients throughout the nuclear fuel cycle in licensing, compliance, and enforcement matters.

Prior to joining the firm, Mr. Smith served as an attorney for the U.S. Nuclear Regulatory Commission.

Mr. Smith is a member of the American Bar Association and served as chair of the Special Committee on Nuclear Power in the ABA's Section of Environment, Energy, and Resources. Mr. Smith was ranked in Chambers USA 2013 as one of the nation's top lawyers in the nuclear energy regulatory and litigation practice.

