

**Energy Contractors Price-Anderson Group**

**[Bechtel National, Inc.  
BNFL, Inc.  
BWX Technologies, Inc.  
Duke Engineering & Services, Inc.  
Fluor Corporation  
Johnson Controls World Services Corporation  
Newport News Nuclear  
Nuclear Fuel Services, Inc.  
Raytheon Engineers & Constructors, Inc.  
Stone & Webster Engineering Corporation]**

**Response to  
U.S. Department of Energy  
Notice of Inquiry  
Concerning Preparation of  
Report to Congress on  
The Price-Anderson Act**

**62 Fed.Reg. 68272 (December 31, 1997)**

**January 30, 1998**



## I. Introduction

The *ad hoc* Energy Contractors Price-Anderson Group is submitting the comments and recommendations herein in response to the U.S. Department of Energy (DOE or the Department) Federal Register "Notice of Inquiry concerning preparation of report to Congress on the Price-Anderson Act" (Notice) of December 31, 1997.<sup>1</sup> Such Notice requested public comments concerning the continuation or modification of the provisions of the Price-Anderson Act (the Act). The Notice indicated these will assist the Department in preparation of a report on the Act to be submitted to Congress by August 1, 1998, as required by Section 170p of the Atomic Energy Act (AEA).

The *ad hoc* Energy Contractors Price-Anderson Group (the Group) is composed of:

Bechtel National, Inc.  
BNFL, Inc.  
BWX Technologies, Inc.  
Duke Engineering & Services, Inc.  
Fluor Corporation  
Johnson Controls World Services Corporation  
Newport News Nuclear  
Nuclear Fuel Services, Inc.  
Raytheon Engineers & Constructors, Inc.  
Stone & Webster Engineering Corporation

Each member of the Group has a vital interest in continuation of the nuclear hazards liability coverage provided by the Price-Anderson Act, either as a DOE prime contractor, subcontractor or supplier covered by one or more nuclear hazards indemnity agreements entered into under the Act.

The Price-Anderson indemnity system should be continued in substantially its present form beyond August 1, 2002 to ensure protection of the public and furtherance of DOE's statutory missions in research and development, production, environmental restoration and waste management, defense and other nuclear fields. The Department reached the conclusion the unique umbrella protection afforded by Price-Anderson continued to be "indispensable" and that cessation of the contract indemnity system would not be in the public interest in its 1983 Report to Congress.<sup>2</sup> DOE should do so again in the new Report to be submitted to Congress later this year.

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<sup>1</sup>62 Fed.Reg. 68272.

<sup>2</sup>DOE, The Price-Anderson Act - Report to Congress as Required by Section 170p of the Atomic Energy Act of 1954, as Amended, at 3-4 (Aug. 1, 1983) [hereinafter cited as *1983 DOE Report*].

While the Federal Government's own nuclear activities (which usually are carried out by contractors) have had a good safety record, the possibility of a serious accident resulting in damages to the public unfortunately cannot be eliminated totally. Price-Anderson provides an assured and exemplary system of protection for the public in case that unlikely event ever happens.

During consideration of the last extension, five Congressional Committees with oversight of DOE's nuclear activities (Senate Energy and Environment, and House Energy, Interior and Science) supported renewal of the Department's Price-Anderson indemnification authority. For example, the Senate Energy Committee summarized the need for Price-Anderson as follows:

In general, failure to extend the Price-Anderson Act would result in substantially less protection for the public in the event of a nuclear incident. In the absence of the Act, compensation for victims of a nuclear incident would be less predictable, less timely, and potentially inadequate compared to the compensation that would be available under the current Price-Anderson system.<sup>3</sup>

The General Accounting Office (GAO) also recommended renewal of DOE's Price-Anderson authority.<sup>4</sup>

Protection of the public has been the principal purpose of the Price-Anderson Act since its adoption in 1957. The statutory scheme of indemnification and/or insurance has been intended to ensure the availability to the public of adequate funds in the event of a catastrophic, yet unlikely, nuclear accident. Other benefits to the public include such features as emergency assistance payments, consolidation and prioritization of claims in one court, channeling of liability through the "omnibus" feature (permitting a more unified and efficient approach to processing and settlement of claims), and waivers of certain defenses in the event of a large accident ("extraordinary nuclear occurrence") (providing a type of "no-fault" coverage). If a very large accident were to happen, Congress recognized in 1957 (and again at the time of the 1988

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<sup>3</sup>S.Rep. No. 100-70, Calendar No. 166, 100th Cong., 1st Sess. (June 12, 1987) at 18; *reprinted in* [1988] U.S. Code Cong. & Ad. News 1424, 1426 [hereinafter cited as *1987 Senate Energy Committee Report*]. *See also* S.Rep. 100-218, Calendar No. 435, 100th Cong., 1st Sess. at 4 (Nov. 12, 1987), *reprinted in* [1988] U.S. Code Cong. & Ad. News 1479 [1987 Senate Environment Committee Report]; H.Rep. 100-104, Part 1, 100th Cong., 1st Sess. 5-7 (May 21, 1987) [hereinafter cited as *1987 House Interior Committee Report*]; H.Rep. 100-104, Part 2, 100th Cong., 1st Sess. 3 (July 22, 1987) [hereinafter cited as *1987 House Science Committee Report*]; H.Rep. 100-104, Part 3, 100th Cong., 1st Sess. 15, 17 (July 22, 1987) [hereinafter cited as *1987 House Energy Committee Report*] (noting the House Energy Committee viewed the need to extend the Act as "urgent" and that the impact of expiration "would be most severe" with respect to DOE).

<sup>4</sup>GAO, Nuclear Regulation - A Perspective on Liability Protection for a Nuclear Plant Accident, GAO/RCED-87-124 (June 1987) at 5-6, 28-30 [hereinafter cited as *1987 GAO Report*].

Amendments) that a private company (such as a DOE prime contractor or subcontractor) probably could not bear the costs alone. The company could be forced into bankruptcy, leaving injured claimants without compensation.<sup>5</sup> Price-Anderson was seen as a means of preventing this from happening by providing "a comprehensive, compensation-oriented system of liability insurance for Department of Energy contractors and Nuclear Regulatory Commission licensees operating nuclear facilities."<sup>6</sup>

Another Congressional purpose in 1957, which remains valid today, was to encourage private participation in nuclear development. Without the Price-Anderson system's indemnification and limitation on liability, private industry would be very reluctant to do even vital nuclear business with DOE. This is largely because private insurance, if available for some risks, would not protect against all nuclear hazards, especially when they involve work at older government facilities (part or all of which may be classified for reasons of national security), and currently is limited to \$200 million. (Even if private insurance were available for some DOE nuclear activities, it is more cost effective for the Government to continue to self-insure.)

Contractor indemnification against the risks of nuclear incidents has been provided by the U.S. Government since the early 1940s. Contractor coverage prior to the Price-Anderson Act, however, often was inconsistent, subject to the individual contract idiosyncracies, inapplicable to subcontractors, and subject to the availability of funds. Price-Anderson was carefully designed to correct many of these deficiencies by providing a uniform system of contractor indemnification and public protection.

Enhanced criminal and civil penalty provisions were added in 1988 to further encourage DOE "contractor accountability" after Congress rejected any subrogation provision tied to such legally imprecise terms as "gross negligence" and "willful misconduct." If the Price-Anderson Act were amended to add such exclusions, contractors would have to assume they essentially would have no nuclear hazards liability coverage.

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<sup>5</sup>See, e.g., S.Rep. No. 296, 85th Cong., 1st Sess. 15 (1957) [hereinafter cited as *S.Rep. No. 296*], reprinted in [1957] U.S. Code Cong. & Ad. News 1803, 1816-1817; H.Rep. No. 435, 85th Cong., 1st Sess. 15 (1957) [hereinafter cited as *H.Rep. No. 435*]; L.R. Rockett, Financial Protection Against Nuclear Hazards: Thirty Years' Experience Under the Price-Anderson Act, Legislative Drafting Research Fund of Columbia University at 57-58 (January 19, 1984); 103 Cong. Rec. H9560 (daily ed. July 1, 1957) (statement of Rep. Van Zandt).

<sup>6</sup>1987 Senate Energy Committee Report, *supra* note 3, at 14, 16-18, reprinted in [1988] U.S. Code Cong. & Ad. News 1426, 1428-1430 (also noting the need for extending the Price-Anderson Act then was essentially the same as in 1957, *i.e.* the amount of private insurance available was insufficient and compensation to victims of a nuclear accident, in the absence of the Price-Anderson Act, therefore would be seriously limited).

DOE, by regulation, by the contractual provisions it imposes on contractors and/or by the degree of supervision it exercises over their activities, currently possesses adequate authority to encourage appropriate accountability on the part of its contractors. In addition to civil penalties, DOE long has had various other mechanisms to influence contractor behavior, including criminal penalties, fee reductions, nonrenewals, debarments, terminations, etc.

After over forty years of indemnification, private industry has maintained a large role in assisting the Government in its own nuclear activities without significant damage or injury to the public and with only one substantial settlement for nuclear damage (about \$73 million at Fernald in 1989). In other words, Price-Anderson contractor indemnification is a system that has worked well. The only fundamental change since the original adoption of Price-Anderson in 1957 (other than the effects of passage through inflationary periods of time) has been the revolutionary change in the American tort system, most of which has occurred over the last twenty-year period. This change has increased greatly the unpredictability of the probable dollar damages resulting from any major accident, whether it be nuclear or non-nuclear in nature. This makes a system such as Price-Anderson only more essential for the period beyond 2002.

## **II. Legislative History of Government Contractor Indemnification Anderson Act**

**Under the Price-**

The Group has prepared an updated Legislative History of Government Contractor Indemnification Under the Price-Anderson Act to serve as a reference, since many issues that may arise (including several raised in the Notice) have been considered by past Congresses. A copy is attached as Attachment A, so that it may be included with the materials the Department will be making available on the Internet and in the Freedom of Information Reading Room.

## **III. Responses To DOE List of Questions**

The DOE Notice contains a list of questions representing the Department's "... preliminary attempt to identify potential issues that might arise in responding to the section 170p. mandate that DOE report `concerning the need for continuation or modification of the provisions of [the Act] taking into account the condition of the nuclear industry, availability of private insurance, and the state of knowledge concerning nuclear safety at that time, among other relevant factors.'"<sup>7</sup> The Group's responses to DOE's specific questions are as follows:

### **1. Should the DOE Price-Anderson indemnification be continued without modification?**

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<sup>7</sup>62 Fed.Reg. at 68276-68278.

The DOE Price-Anderson indemnification authority should be continued after August 1, 2002. As addressed in more detail in response to Questions 13, 16, 18, 19, 20, 21 and 22, it is recommended that the DOE Report to Congress urge a few modifications or clarifications to improve the Act further: The \$100 million limit set in 1962 for nuclear incidents outside the United States should be increased to at least \$500 million (Question 13), and made to apply in more circumstances (Question 20). Additionally, the Act's applicability to DOE "cooperative agreements" and "grants" (Question 16), waste sites (Question 18), "mixed waste" (Question 19), the United States "territorial sea" (Question 21), and the United States "exclusive economic zone" (Question 22) should be clarified.

**2. Should the DOE Price-Anderson indemnification be eliminated or made discretionary with respect to all or specific DOE activities? If discretionary, what procedures and criteria should be used to determine which activities or categories of activities should receive indemnification?**

The 1988 Amendments for the first time made DOE Price-Anderson coverage for contractors mandatory for all activities that involve risk of "public liability."<sup>8</sup> This provision (first suggested in the 1957 Congressional hearings<sup>9</sup>) was added in order to make coverage apply in more situations, and to avoid requiring DOE to determine administratively whether a particular activity presents a "substantial" nuclear risk. DOE Price-Anderson indemnification should not return to being discretionary.

Prior to the 1988 Amendments, DOE regulations permitted routine issuance of Price-Anderson indemnity only when it was determined by the Head of a Procuring Activity that there existed a risk of damage to persons or property due to the nuclear hazard of \$60 million or more.<sup>10</sup> Such a determination often was very distasteful for DOE to make from a political and public relations standpoint, with the result that both the general public and the particular contractor may have been subject to significant uninsured risk

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<sup>8</sup>Pub.L. No. 100-408, §4(a)d(1)(A); 102 Stat. 1068 (codified at 42 U.S.C. §2210(d)(1)(A)).

<sup>9</sup>Appearing on behalf of the New York City Bar Association, Arthur W. Murphy said he thought the legislation should contain a direction to the Atomic Energy Commission (AEC) to indemnify Government contractors in any case in which financial responsibility would be required if the activity involved were licensed. Hearings Before the Joint Committee on Atomic Energy, 85th Cong., 1st Sess. 162-163 (1957) [hereinafter cited as *1957 Hearings*]. He further said he thought that indemnity should be available for any activity carried on by contractors which were not of a type that might be carried on by a licensee, if the Commission thought there was a danger of a "substantial" accident. He added the AEC contractor provision should be mandatory, rather than permissive. *Id.* at 176. A similar statement was made by Dr. Lee L. Davenport, President, Sylvania-Corning Nuclear Corp. *Id.* at 250.

<sup>10</sup>See DOE Procurement Regulation 41 C.F.R. §9-10.5005(b) (1983), *reprinted in 1983 DOE Report*, *supra* note 2, at B-3.

if that determination proved to have been overly optimistic. For example, DOE's discretion became a significant issue for the State of New Mexico in connection with the Waste Isolation Pilot Plant (WIPP) Project in the early 1980s. At the time, DOE stipulated that it then was the Department's "current intention" to include a Price-Anderson indemnity article in any WIPP operating contract, but DOE said it could not "stipulate away its discretion in this regard."<sup>11</sup>

In 1987, the Senate Energy Committee indicated it felt that the protection afforded the public by the Price-Anderson Act was important enough to justify removing DOE's discretion.<sup>12</sup> The House bill (H.R. 1414<sup>13</sup>) also eliminated the substantiality test, and required DOE to indemnify all contractors.<sup>14</sup>

**3. Should there be different treatment for "privatized arrangements" (that is, contractual arrangements that are closer to contracts in the private sector than the traditional "management and operating" contract utilized by DOE and its predecessors since the Manhattan Project in the 1940's)? Privatized arrangements can include but are not limited to fixed-priced contracts, contracts where activity is conducted off a DOE site, contracts where activity is conducted at the contractor's facility located on a DOE site, or contracts where a contractor performs the same activity for DOE as it does for commercial entities and on the same terms.**

There should not be different Price-Anderson treatment for "privatized arrangements" being contemplated by DOE. The work under these arrangements still will be done for the benefit of the Government, and presumably would cost more if contractors had to self-insure or purchase private insurance (if even available). Lack of Price-Anderson protection would lessen competition by eliminating most, if not all, well-capitalized, competent bidders. Using "judgment proof" contractors that might be willing to do the work would diminish protection of the public. It presumably also would make it more difficult for contractors to finance projects privately, because would-be lenders would be concerned about the borrower's ability to pay claims and to repay the loan at the same time. (This would be in addition to lenders' current concerns about the availability of appropriations over the long period of time contemplated

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<sup>11</sup>Supplemental Stipulated Agreement Resolving Certain State Off-Site Concerns Over WIPP, *State of New Mexico, ex rel. Bingaman v. DOE*, No. 81-0363 JB, at 5-6 (D.N.Mex., Dec. 29, 1982). See also Opinion of the DOE General Counsel on Application of the Price-Anderson Act to WIPP at 13-15 (Dec. 9, 1982).

<sup>12</sup>1987 Senate Energy Committee Report, *supra* note 3, at 19, reprinted in [1988] U.S. Code Cong. & Ad. News 1432.

<sup>13</sup>100th Cong., 1st Sess. (1987).

<sup>14</sup>1987 House Interior Committee Report, *supra* note 3, at 12-13. See also 1987 House Science Committee Report, *supra* note 3, at 9-10.



by privatized arrangements.) Public protection would be decreased without Price-Anderson coverage.

**4. Should there be any change in the current system under which DOE activities conducted pursuant to an NRC license are covered by the DOE Price-Anderson indemnification, except in situations where NRC extends Price-Anderson coverage under the NRC system? For example, (1) should the DOE Price-Anderson indemnification always apply to DOE activities conducted pursuant to an NRC license or (2) should the DOE Price-Anderson indemnification never apply to such activities, even if NRC decides not to extend Price-Anderson coverage under the NRC system?**

There should not be any change in the current system under which DOE activities conducted pursuant to an NRC license are covered by the DOE Price-Anderson indemnification. Again, the work under these arrangements still is done for the benefit of the Government, and presumably would cost more if contractors had to self-insure or purchase private insurance (if even available). Lack of Price-Anderson protection also would lessen competition by eliminating most, if not all, well-capitalized, competent bidders. Again, using "judgment proof" contractors that might be willing to do the work would diminish protection of the public. Furthermore, as a practical matter, NRC has provided Price-Anderson coverage only to nuclear power plants, plutonium processing and fuel fabrication plants, and spent fuel reprocessing plants.<sup>15</sup> Therefore, there are few situations where NRC extends Price-Anderson coverage to commercial entities under the NRC system, and none have involved work under DOE contracts.

**5. Should the DOE Price-Anderson indemnification continue to provide omnibus coverage, or should it be restricted to DOE contractors or to DOE contractors, subcontractors, and suppliers? Should there be a distinction in coverage based on whether an entity is for-profit or not-for-profit?**

DOE Price-Anderson indemnification should continue to provide "omnibus" coverage, and there should not be a distinction in coverage based on whether an entity is for-profit or not-for-profit. The public should be protected whether or not the entity liable is for-profit or not-for-profit.

The Price-Anderson system's "omnibus coverage" for "anyone liable"<sup>16</sup> (often referred to as

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<sup>15</sup>See 10 C.F.R. §§140.11(a)(4) (nuclear power plants) and 140.13a (plutonium processing and fuel fabrication plants); 39 Fed.Reg. 43867 (Dec. 19, 1974) (noting that Price-Anderson coverage was provided on an "interim" basis for NRC-licensed reprocessing plants at Barnwell, South Carolina; West Valley, New York; and Morris, Illinois).

<sup>16</sup>See AEA, Section 11t, 42 U.S.C. §2014t (defining "person indemnified"). *See also*

(continued...)

"economic channeling") would facilitate claims handling by eliminating the usual disputes among various parties potentially liable for an accident<sup>17</sup> (e.g., the prime contractor, its subcontractors, suppliers, vendors, architect-engineers, etc.). The Price-Anderson indemnification now covers "anyone liable", not just the entity with whom the indemnity agreement is executed. A typical DOE contractor-subcontractor relationship could potentially involve many different companies. Omnibus coverage has been a fundamental feature of the Act since 1957. Before the passage of Price-Anderson, indemnity agreements had to be negotiated at each tier of the contractor scheme. If construction and development of several nuclear facilities occurred, the number of contractors and subcontractors that faced possible risks due to a nuclear mishap could reach into the "thousands."<sup>18</sup>

Moreover, the different scopes of coverage caused by contract negotiations at each tier could result in haphazard protection of the public. Price-Anderson corrected this deficiency, ensuring the availability of funds to cover damages and creating a uniform level of coverage among contractors, subcontractors, suppliers and anyone else who might be liable.<sup>19</sup> Because of its omnibus feature, Price-Anderson coverage is easier to administer contractually, and therefore presumably more cost-effective for the government.

Without omnibus coverage in the case of a company with limited assets, this could mean that funds

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S.Rep. No. 1677, 87th Cong., 2d Sess. (1962), *reprinted in* [1962] U.S. Code Cong. & Ad. News 2207-2222.

<sup>17</sup>The breadth of Price-Anderson's "omnibus" coverage is illustrated by an often-quoted example in the legislative history of the Act (in fact, cited again in the DOE Notice, 62 Fed.Reg. at 68274, note 18):

In the [1957] hearings, the question of protecting the public was raised where some unusual incident, such as negligence in maintaining an airplane motor, should cause an airplane to crash into a reactor and thereby cause damage to the public. Under this bill the public is protected and the airplane company can also take advantage of the indemnification and other proceedings. S.Rep. No. 296, 85th Cong., 1st Sess., [1957] U.S. Code Cong. & Ad. News 1818.

<sup>18</sup>Operations Under Indemnity Provisions of the Atomic Energy Act of 1954: Hearings Before the Subcomm. on Research, Development, and Radiation of the Joint Committee on Atomic energy, 87th Cong., 1st Sess. 49 (1961); 103 Cong. Rec. S13724 (daily ed. August 16, 1957) (statement by Sen. Anderson); 1983 DOE Report, *supra* note 2, at 1 (there then were over 100 DOE contracts containing Price-Anderson protecting about 50 prime contractors and 70,000 subcontractors and suppliers).

<sup>19</sup>*See, e.g.,* Government Indemnity for Private Licensees and AEC Contractors Against Reactor Hazards: Hearings Before the JCAE, 84th Cong., 2d Sess. 76-85 (1956).

would not be readily available for claimants. Furthermore, any resultant bankruptcy in the chain of persons liable effectively would destroy the "omnibus" feature of the present system, and would run afoul one of the Act's principal purposes, *i.e.* encouragement of settlements by eliminating the likelihood of crossclaims among defendants.

**6. If the DOE indemnification were not available for all or specified DOE activities, are there acceptable alternatives? Possible alternatives might include Pub. L. No. 85-804, section 162 of the AEA, general contract indemnity, no indemnity, or private insurance. To the extent possible in discussing alternatives, compare each alternative to the DOE Price-Anderson indemnification, including operation, cost, coverage, risk, and protection of potential claimants.**

If the DOE Price-Anderson indemnification were not available for all or specified DOE activities, there are no equivalent alternatives for protecting the public or covering contractors, subcontractors and suppliers. General government authority to indemnify contractors preceded the Act, and presumably would continue to exist in the absence of Price-Anderson.<sup>20</sup> However, specific inclusion of contractors in the 1957 Act was an attempt to correct the deficiencies of contractor indemnification as it began under the Manhattan Engineer District of the War Department in the early 1940s, while furthering the broader goals and purposes of Price-Anderson, especially protection of the public.<sup>21</sup> As such, statutory contractor indemnification was seen at the time as desirable for several reasons that are equally valid today.

Contractor coverage prior to the Price-Anderson Act often was inconsistent, subject to individual contract idiosyncracies, inapplicable to subcontractors, and subject to the availability of appropriated funds.<sup>22</sup> As a result, contractors and the public potentially could be left unprotected. Price-Anderson was intended to resolve this problem by providing and guaranteeing compensation up to the liability ceiling.<sup>23</sup>

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<sup>20</sup>*See id.*, at 76-84; *1957 Hearings*, *supra* note 10, at 149-51, 176. Note, however, that a provision added in 1988 provides that, beginning 60 days after August 1988, §170d(1)(A) shall be "the exclusive means" of nuclear hazards indemnification for DOE contractors, including activities conducted under a contract containing Public Law 85-804 indemnification entered into during the 1987-1988 lapse. 42 U.S.C. §2210(d)(1)(B)(i)(I).

<sup>21</sup>*See, e.g., 1957 Hearings*, *supra* note 9, at 176.

<sup>22</sup>In the absence of Price-Anderson, the Anti-Deficiency Act, 31 U.S.C. §1341, usually would apply to DOE nuclear contracts. That statute prohibits contracting officers from incurring any financial obligations over and above those authorized for a particular year and in advance by Congress. *See also* Adequacy of Appropriations Act, 41 U.S.C. §11.

<sup>23</sup>DOE now is authorized under Section 170j of the Price-Anderson Act to enter into contracts in advance of appropriations. Also, DOE

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Price-Anderson was carefully designed to correct many of the earlier deficiencies and to provide a uniform system of public protection. None of the alternatives listed in the question provide Price-Anderson's unique features to protect potential claimants, such as emergency assistance payments, consolidation and prioritization of claims in one court, channeling of liability through the "omnibus" feature (permitting a more unified and efficient approach to providing coverage and for processing and settlement of claims), and waivers of certain defenses in the event of a large accident (providing a type of "no-fault" coverage). Because of its omnibus feature, Price-Anderson coverage is easier to administer contractually, and therefore presumably more cost effective for the government.

As the DOE Notice indicates,<sup>24</sup> both Public Law 85-804<sup>25</sup> and Section 162 of the AEA<sup>26</sup> provide for waivers of certain statutory provisions (such as the Anti-Deficiency Act) relating to contracts under certain conditions. Both have been used to indemnify the Department's contractors in the past, but neither has the above listed advantages of Price-Anderson. There historically has been very little use of Section 162, which requires action by the President; and the Department recently has been taking a very restrictive approach to use of Public Law 85-804.<sup>27</sup>

Public Law 85-804 enables agencies, such as the Department of Defense and DOE, which exercise "functions in connection with national defense" to enter into indemnity agreements for damages arising from contractors' handling of unusually hazardous or nuclear risks. The Department used Public Law 85-804

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may incur obligations without regard to any limitation on the availability of funds. This feature allows DOE to act quickly, without prior consent from Congress for each contractor activity, as pointed out in *1983 DOE Report*, *supra* note 2, at 2.

<sup>24</sup>62 Fed.Reg. at 68273, n.11.

<sup>25</sup>Act of Aug. 28, 1958, Pub.L. No. 85-804, 72 Stat. 972, 50 U.S.C. §§1431-1435.

<sup>26</sup>Section 162 (codified at 42 U.S.C. §2202) provides:

The President may, in advance, exempt any specific action of the Commission [now Department of Energy] in a particular matter from the provisions of law relating to contracts whenever he determines that such action is essential in the interest of the common defense and security.

<sup>27</sup>*See* Memorandum for the Vice President Re: Indemnification of Department of Energy Contractors Under Public Law 85-804 from Secretary of Energy (Dec. 12, 1994).

during the time Price-Anderson authority lapsed between 1987 and 1988.<sup>28</sup> DOE recently has used Public Law 85-804 indemnification in only a very few cases for certain "high priority national security work" outside the United States.

The Senate Energy Committee and House Energy Committee in 1987 pointed out Public Law 85-804 does not provide the same public protection features of the Price-Anderson Act.<sup>29</sup> Under Public Law 85-804, victims could sue for damages under State tort law, but contractors would not have to waive their defenses. Victims also would not be able to benefit from the other important features of the Price-Anderson Act listed above. Public Law 85-804 indemnity, furthermore, usually applies only to the prime contractor, with applicability to subcontractors and suppliers having to be negotiated individually.

Over the years, only a few contractors of DOE and its predecessor agencies (AEC and ERDA) have received special indemnity protection by use of Section 162 of the AEA.<sup>30</sup> Section 162 enables the President to approve DOE contracts containing "general indemnities" not subject to the availability of appropriated funds. In other words, Section 162 has been used to provide exemptions to the Anti-Deficiency Act. As in the case of Public Law 85-804, however, Section 162 indemnification does not provide the important public protection features of the Price-Anderson Act, such as the waiver of defenses, emergency assistance payments, consolidation and prioritization of claims, a minimum statute of limitations, or the "omnibus" feature that includes subcontractors and suppliers.

In 1981, the House Committee on Science and Technology asked the GAO to examine the Price-Anderson Act as it governs nuclear liability of DOE contractors. GAO said in its 1981 report that it believed the protection provided DOE contractors by the Price-Anderson Act was needed, "especially

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<sup>28</sup>A lapse in Price-Anderson authority for new or extended nuclear hazards liability coverage lasted for just over a year from August 1, 1987 to August 20, 1988. During that time, five expiring contracts were extended with Public Law 85-804 indemnification as an interim measure. At least one major DOE contractor, however, refused to do nuclear work for DOE with only Public Law 85-804 indemnification. On October 22, 1987, General Electric Company informed DOE it would not accept a contract for the Dynamic Isotope Power Systems project relying solely on Public Law 85-804 for nuclear indemnification coverage. Chairman Johnston later referred to this fact during the Senate floor debate on Price-Anderson on March 16, 1988. See 134 Cong.Rec. S2302 (daily ed. Mar. 16, 1988).

<sup>29</sup>1987 Senate Energy Committee Report, *supra* note 3, at 17, reprinted in [1988] U.S. Code Cong. & Ad. News 1429; 1987 House Energy Committee Report, *supra* note 3, at 17.

<sup>30</sup>Action was taken by seven different Presidents under Section 162 (or its predecessor, Section 12(b) of the AEA of 1946) in connection with five different contracts that contained indemnity provisions without qualification as to the availability of appropriations. The most recent use of Section 162 was by President Reagan on January 19, 1988 in connection with the last five-year extension (through September 30, 1993) of the AT&T/Sandia contract. All contracts subject to a Section 162 Presidential exemption have expired.

since alternative methods for insuring the public against the potential hazards of a catastrophic nuclear accident do not provide as much protection as does the Price-Anderson Act.<sup>31</sup> GAO repeated this conclusion in its 1987 Report as well.<sup>32</sup>

As the DOE Notice itself observes,<sup>33</sup> the Anti-Deficiency Act would apply to any indemnity provided under the Department's "general contract authority."<sup>34</sup> Again, any general contract authority indemnification would not provide the above listed public protection features of Price-Anderson.

The alternative of no indemnity is not acceptable, as discussed in the Group's responses to Questions 7 to 10. The more expensive alternative of private insurance (even if available for some nuclear risks) is discussed in response to Question 11.

**7. To what extent, if any, would elimination of the Price-Anderson indemnification affect the ability of DOE to perform its various missions? Explain your reasons for believing that performance of all or specific activities would or would not be affected?**

Unless the Department wants to substitute federal employees or possibly less responsible and/or less competent contractors (with little or no assets), elimination of the Price-Anderson indemnification would adversely affect the ability of DOE to perform its various missions. This is because it would make it more difficult to attract well-capitalized, competent contractors, subcontractors and suppliers. Using federal employees would result in less protection for the public, because liability for their actions would be governed by the Federal Tort Claims Act (FTCA),<sup>35</sup> which greatly limits recoveries against the Government

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<sup>31</sup>GAO, Congress Should Increase Financial Protection to the Public from Accidents at DOE Nuclear Operations, EMD-81-111 (September 14, 1981).

<sup>32</sup>1987 GAO Report, *supra* note 4, at 29-30.

<sup>33</sup>62 Fed.Reg. at 68273, n.11.

<sup>34</sup>48 C.F.R. Subpart 950.71.

<sup>35</sup>28 U.S.C. §§2671 *et seq.* See *Dalehite v. United States*, 346 U.S. 15 (1953) (describing the legislative history of the FTCA, and the Federal Government's lack of liability for the Texas City disaster thereunder). See also *1987 Senate Energy Committee Report*, *supra* note 3, at 17-18, *reprinted in* [1988] U.S. Code Cong. & Ad. News 1429-1430 (describing the legal obstacles to recovery of damages under the FTCA). In 1987, the U.S. Department of Justice objected to a provision that would have treated the Secretary of Energy as a government contractor for purposes of determining the Federal Government's potential tort liability for certain activities relating to storage or

(continued...)

for its own torts. Using "judgment proof" contractors that might be willing to do the work would diminish protection of the public.

**8. To what extent, if any, would the elimination of the DOE Price-Anderson indemnification affect the willingness of existing or potential contractors to perform activities for DOE? Explain your reasons for believing that willingness to undertake all or specific activities would or would not be affected?**

Price-Anderson was intended to eliminate nuclear liability concerns and to encourage private industry to participate in nuclear development, including U.S. Government activities. DOE contractors strenuously reiterated the same point prior to the 1988 extension, saying they would decline to work for DOE without nuclear liability protection of the type afforded by the Price-Anderson Act. Alternatives would be using Federal employees or possibly less responsible and/or less competent contractors (with little or no assets).<sup>36</sup>

As DOE indicated in its 1983 Report to Congress, there would be strong reluctance on the part of existing and potential contractors to do any nuclear business with the Department if DOE's authority to enter into Price-Anderson indemnity agreements were discontinued. The strong reluctance would apply especially to contractors whose nuclear activities are only a small percentage of their overall businesses. This would lessen competition and otherwise increase costs to the Government.

If the Act were not extended, the cost to the Government probably would rise, because contractors and their subcontractors and suppliers, in order to protect themselves against potential nuclear liability hazards, presumably would have to raise fees to account for the added risk of the contract or attempt to purchase private insurance coverage. However, since adequate private insurance would not be available

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disposal of radioactive waste. *Id.* at 59-64; 1987 House Energy Committee Report, *supra* note 3, at 33-36. The objection was this would have exposed the Government to more potential liability than under the FTCA's limited waiver of sovereign immunity.

<sup>36</sup>The 1987 Senate Energy Committee Report recognized the possibility some DOE contractors would discontinue work in DOE's nuclear activities altogether if the Price-Anderson system were not extended. 1987 Senate Energy Committee Report, *supra* note 3, at 17, 34-35, reprinted in [1988] U.S. Code Cong. & Ad. News 1429, 1446-1447. In fact, the Committee noted, in that event, Federal nuclear activities would continue, but they would likely be carried out by Federal employees or possibly by less responsible, less competent contractors. If DOE's nuclear activities were to be carried out by Federal employees, victims of a nuclear accident could only attempt to obtain compensation by filing suit against the Government under the FTCA. *Id.*

(as discussed in response to Question 11, *infra*), qualified and responsible contractors, if they would be willing to do the work at all without liability protection, presumably would have to charge higher fees. Alternatively, the most qualified contractors simply might not be willing to bid on work requiring assuming the added risk, especially if the work represented a small percentage of their overall business.

**9. To what extent, if any, would the elimination of the DOE Price-Anderson indemnification affect the ability of DOE contractors to obtain goods and services from subcontractors and suppliers? Explain your reasons for believing that the availability of goods and services for all or specific DOE activities would or would not be affected?**

As DOE indicated in its 1983 Report to Congress, if DOE's authority to enter into Price-Anderson indemnity agreements were discontinued, the strong reluctance on the part of existing and potential contractors to do any nuclear business with the Department also would extend down tier lines to subcontractors and equipment suppliers, including many small businesses throughout the country, who might be liable for a serious accident but not have the financial resources to cover that liability or the defense costs associated with such litigation. The strong reluctance would apply especially to suppliers whose nuclear activities are only a small percentage of their overall businesses. Again, this would lessen competition and otherwise increase costs to the Government for all DOE nuclear activities.

**10. To what extent, if any, would the elimination of the DOE Price-Anderson indemnification affect the ability of claimants to receive compensation for nuclear damage resulting from a DOE activity? Explain your reasons for believing the ability of claimants to be compensated for nuclear damage resulting from all or specific DOE activities would or would not be affected?**

The elimination of the DOE Price-Anderson indemnification would adversely affect the ability of claimants to receive compensation for nuclear damage resulting from any DOE activity. Price-Anderson, as previously noted, has a number of unique features designed to expedite claims handling. Again, these include emergency assistance payments, consolidation and prioritization of claims in one court, channeling of liability through the "omnibus" feature (permitting a more unified and efficient approach to providing coverage and for processing and settlement of claims), waivers of certain defenses in the event of a large accident ("extraordinary nuclear occurrence") (providing a type of "no-fault" coverage), and an assured source of funds.

**11. What is the existing and the potential availability of private insurance to cover liability for nuclear damage resulting from DOE activities? What would be the cost and the coverage of such insurance? To what extent, if any, would the availability, cost and coverage be dependent on the type of activity involved? To what extent, if any, would the availability, cost and coverage be dependent on whether the activity was a new activity or an existing activity? If DOE Price-**



**Anderson indemnification were not available, should DOE require contractors to obtain private insurance?**

Private nuclear liability insurance would be an impractical, more expensive and insufficient substitute for Price-Anderson indemnification of DOE contractors. These conclusions are based on the Group members' experiences, and confirmed by information provided by American Nuclear Insurers (ANI), which is the sole source of nuclear liability insurance in the United States.

Attachment B to these comments is a letter concerning the availability of private insurance for DOE contractors sent by ANI on January 21, 1998.

In the letter, ANI indicates it would "consider" writing nuclear liability insurance at DOE facilities,<sup>37</sup> but highlights a number of factors that would severely limit the value to DOE and its contractors of any such coverage:

- a. Nuclear liability insurance would be limited to \$200 million at any one facility. Thus, even if private insurance were available for DOE activities, it could cover only the first \$200 million of liability. As ANI itself observes, insurance could not replace the roughly \$9 billion of coverage provided by DOE under Price-Anderson.
- b. ANI is not willing to guarantee that coverage would actually be written. As ANI indicates, it would have to do its own engineering evaluation of the DOE facility and the activities performed, and have DOE's agreement to implement recommendations that may be prerequisites to coverage. ANI would have to look at the "type of facility insured, nature of the activities performed, type and quantities of nuclear material handled, location of the facility, qualifications of site management, quality of safety-related programs and operating history." Any such evaluation presumably would take considerable time and resources, the results of which cannot be predicted at this time. In addition, any insurance ANI might be willing to write presumably would be subject to cancellation or non-renewal for causes stated.
- c. ANI is not able to provide any definitive numbers, but indicates "annual per policy premiums might fall in the range of \$500,000 - \$2 million at policy limits of \$200 million." ANI notes these

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<sup>37</sup>During consideration of the last extension of the Price-Anderson Act, it was suggested that DOE contractors should be required to maintain private insurance to protect themselves against claims from accidents resulting from "gross negligence". In response to a March 30, 1987 inquiry from Senate Energy Committee Chairman Johnston, the nuclear insurance pools on April 3, 1987 wrote that a private insurance market for government contractor activities was not likely to arise and the possibility of developing a market restricted to covering "gross negligence" or "willful misconduct" was "very remote indeed". See April 3, 1987 letter from R.A. Schmalz, Esq. to Chairman Johnston.

premiums, of course, would be subject to change over time, and would be based on the factors listed in paragraph b.

d. ANI indicates it "...would be much easier for us to write nuclear liability insurance for new DOE facilities than for existing facilities. For facilities which have, in some cases, operated for decades, we would have obvious concerns about picking up liability for old exposures which may well preclude insurability." In other words, it appears highly unlikely ANI would be willing to insure existing DOE nuclear facilities.

e. Unlike Price-Anderson indemnification, the ANI liability policies provide coverage only for the liability for "tort damages because of offsite bodily injury or property damage caused by the nuclear energy hazard."

f. Specific items *excluded* by the ANI policies include: (i) radiation tort claims of workers (although they might be covered under another policy for another premium); (ii) *bodily injury or property damage due to the manufacturing, handling or use of "any nuclear weapon or other instrument of war,"* (iii) property damage to any property at the insured facility, (iv) on-site cleanup costs, and (v) environmental cleanup costs (*i.e.*, those costs arising out of a governmental decree or order to cleanup, neutralize or contain contamination of the environment). In other words, DOE contractors still would need liability protection for these items now covered by Price-Anderson.

As the ANI letter observes, contractors engaged in DOE nuclear activities historically have not been asked to attempt to obtain any private liability insurance to cover nuclear risks. Even if available, DOE contractors should not now be required to purchase any insurance from the private insurers. DOE and its predecessor agencies have correctly concluded in the past that such a requirement should not be imposed for a very important reason: The costs of insurance simply would be passed on to the Government, which is in a position to continue to self-insure nuclear risks, especially in light of the fact that very little Federal money has been paid out in the forty years since the Act was passed in 1957.

In its 1983 Report to Congress, the Department pointed out:

The Government does not require private insurance of its contractors since the cost of any outside insurance that the Government might require would have to be borne by the Government, just as the Government has to pay other costs incurred in carrying out its own programs. That view and policy have remained unchanged. Our experience to date, of course, completely supports the prudence of the judgment to self-insure from the first

dollar of the indemnity coverage. Saved premium costs are considerable.<sup>38</sup>

Based on the claims paid during the first forty years of the DOE Price-Anderson indemnification and ANI's estimated annual per facility premium costs, it is likely private insurance premiums in the long term would be more expensive for the Government than continuing to self-insure. Even ANI, now the only available private insurer of nuclear risks in the United States, concludes, "In view of the position taken by the government [to self-insure] over more than forty years, it is unclear why DOE would consider requiring underlying insurance at this late stage." Indeed, continuing Price-Anderson indemnification remains the preferable alternative.

**12. Should the amount of the DOE Price-Anderson indemnification for all or specified DOE activities inside the United States (currently approximately \$8.96 billion) remain the same or be increased or decreased?**

The current Price-Anderson amount of almost \$9 billion is adequate. In fact, it is by far the highest national nuclear accident compensation amount in the world. To date, the highest Price-Anderson settlement ever was about \$73 million (at Fernald in 1989). Furthermore, Section 15 of the 1988 Act made the Act's limit of liability subject to inflation indexing not less than every five years based on the Consumer Price Index.<sup>39</sup> Under this provision, the current limit is expected to be increased later in 1998. Additionally, if an accident were so large as to exceed the statutory indemnity ceiling, Congress first recognized in 1957 it would be capable of legislating additional funds.<sup>40</sup> Indeed, the Act specifically has provided since 1975 that, in the event of a nuclear incident involving damages in excess of the statutory limitation on liability, Congress will thoroughly review the particular incident and take whatever action is deemed necessary and appropriate to protect the public from the consequences of a disaster of such magnitude.<sup>41</sup>

**13. Should the amount of the DOE Price-Anderson indemnification for nuclear incidents outside**

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<sup>38</sup>1983 DOE Report, *supra* note 2, at 5.

<sup>39</sup>Pub.L. No. 100-408, §15; 102 Stat. 1078 (codified at 42 U.S.C. §2210(t)).

<sup>40</sup>*See, e.g., S. Rep. No. 296, supra* note 5, at 22, *reprinted in* [1957] U.S. Code Cong. & Ad. News 1823; *H.Rep. No. 453, supra* note 5, at 22.

<sup>41</sup>42 U.S.C. §2210(e)(2). This provision was added by Act of December 31, 1975, Pub. L. No. 94-197, §6, 89 Stat. 1111. *See also Duke Power Co. v. Carolina Environmental Study Group*, 438 U.S. 59, 85-86 (1978) (discussing this provision in the decision that unanimously upheld the constitutionality of the Act's limitation on liability); and *1987 Senate Energy Committee Report, supra* note 3, at 14.

**the United States (currently \$100 million) remain the same or be increased or decreased?**

The amount of the DOE Price-Anderson indemnification for nuclear incidents outside the United States (currently \$100 million) should be increased to at least \$500 million. The current figure has not changed since it first was added to the Act in 1962. Recently, the International Atomic Energy Agency has concluded changes to the Vienna Convention on Civil Liability for Nuclear Damage and the new Convention on Supplementary Compensation for Nuclear Damage. These would require national compensation amounts of at least 300 million Special Drawing Rights (SDRs) for most nuclear activities. (1 SDR = about \$1.4.) The figure for NRC-licensed nonprofit educational institutions has been \$500 million for some time.<sup>42</sup>

Additionally, as discussed in response to Question 20, the coverage for nuclear incidents outside the United States should be amended to cover more circumstances, such as the Department's international nuclear safety assistance program to improve the safety of Soviet-designed nuclear facilities.

**14. Should the limit on aggregate public liability be eliminated? If so, how should the resulting unlimited liability be funded? Does the rationale for the limit on aggregate public liability differ depending on whether the nuclear incident results from a DOE activity or from an activity of a NRC licensee?**

The limit on aggregate public liability should not be eliminated, as it has been a fundamental feature of the Act since 1957. As noted, in response to Question 12, if the accident were so large as to exceed the statutory indemnity ceiling, Congress first recognized in 1957 it would be capable of legislating additional funds. Indeed, the Act specifically has provided since 1975 that, in the event of a nuclear incident involving damages in excess of the statutory limitation on liability, Congress will thoroughly review the particular incident and take whatever action is deemed necessary and appropriate to protect the public from the consequences of a disaster of such magnitude.

As the Supreme Court of the United States noted in upholding the constitutionality of the Act in 1978,<sup>43</sup> the Act's limitation on liability is a "classic example of an economic regulation - a legislative effort to structure and accommodate `the burdens and benefits of economic life.'" The Supreme Court found that the Act was justified to encourage private industry participation in use of nuclear materials. Without this limitation on liability, there would be strong reluctance on the part of private industry to work on DOE nuclear programs. Thus, there should be such a limitation at some appropriate figure. (As noted in

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<sup>42</sup>42 U.S.C. §2210k.

<sup>43</sup>*Duke Power Co.*, *supra* note 41.

response to Question 12, the current amount of almost \$9 billion is adequate.) Without a limitation on liability, the "omnibus" feature of Price-Anderson is not workable. Additionally, since Price-Anderson is not subject to appropriations, unlimited liability would amount to Congress writing a "blank check" in advance of an accident.

The 1988 Amendments substantially increased the liability limit for NRC-licensed nuclear power plants; and, for the first time, provided the indemnity and liability limit for DOE contractors would be equal to the highest amount applicable to power plants.<sup>44</sup> There does not appear to be any reason to revisit this issue.

**15. Should the DOE Price-Anderson indemnification continue to cover DOE contractors and other persons when a nuclear incident results from their gross negligence or willful misconduct? If not, what would be the effects, if any, on: (1) The operation of the Price-Anderson system with respect to the nuclear incident, (2) other persons indemnified, (3) potential claimants, and (4) the cost of the nuclear incident to DOE? To what extent is it possible to minimize any detrimental effects on persons other than the person whose gross negligence or willful misconduct resulted in a nuclear incident? For example, what would be the effect if the United States government were given the right to seek reimbursement for the amount of the indemnification paid from a DOE contractor or other person whose gross negligence or willful misconduct causes a nuclear incident?**

The Act should not be amended to provide for an exclusion or subrogation<sup>45</sup> in cases of so-called "gross negligence" or "willful misconduct." After a thorough examination of this issue in the last Price-

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<sup>44</sup>DOE supported increasing the amount to that applicable to power plants. *1983 DOE Report, supra* note 2, at 6. At one point, the House Interior Committee had considered requiring DOE to indemnify contractors to "the full extent of potential aggregate liability of the contractor." *1987 House Interior Committee Report, supra* note 3, at 13, 23. *See 1987 House Science Committee Report, supra* note 3, at 12-13, 15-16 (noting "there is no such thing as unlimited compensation," since a decision on the total assets available for such compensation must eventually occur and it would be "unwise and irresponsible to purport to enable all damage victims to reach into the federal Treasury (through contractor indemnification) for compensation.").

<sup>45</sup>An entity having a right of subrogation can recover monies in relation to a claim or debt paid on behalf of another. The subrogation provisions proposed during the last extension of the Act expressly would have allowed DOE to recover from its own indemnified contractors and subcontractors monies paid to injured third parties, in effect making the contractors and subcontractors self-insureds. Insurance policies, for example, often allow a policyholder's primary insurer to recover from a third party's insurer (but not its own insured) monies paid on behalf of its insured.

Anderson extension, Congress, as it had in 1957, declined to make an exclusion for damages in such cases.<sup>46</sup> Arguments used included the fact that it is virtually impossible to distinguish among levels of negligence in today's tort law, so more litigation would ensue and Price-Anderson's "omnibus" feature would be destroyed. Changing coverage now would result in adoption of a position previously rejected by Congress, and could result in diminishing protection for the public (the principal purpose of Price-Anderson). The Price-Anderson system has worked remarkably well for forty years without any indication of the need for a subrogation provision.

DOE opposed such a provision at the time of the last Price-Anderson extension, and should continue to do so. For example, in response to a question from the House Science Committee, DOE on February 18, 1986 submitted a written answer indicating the Department did "...not recommend the inclusion of legally imprecise terms as gross negligence, willful misconduct, or bad faith, which could lead to uncertainty on the part of our contractors and to their possible withdrawal from participation."<sup>47</sup>

New DOE civil and enhanced criminal penalty provisions were added to the 1988 Price-Anderson extension legislation by the Senate essentially as a compromise substitute for subrogation rights against DOE contractors.<sup>48</sup> Chairman Johnston (the floor manager for the Senate Energy Committee) said this provision "...represents a good balance between not driving the good contractors out of business on the one hand and yet providing a severe enough penalty. After all, \$100,000 per day is a tremendous penalty and we think it is sufficient to ensure that [contractors'] conduct will be of the very highest order."<sup>49</sup> On the same day, the Senate (on a roll call vote of 53 to 41)<sup>50</sup> tabled Senator Metzenbaum's attempt to add a subrogation provision to the bill.<sup>51</sup>

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<sup>46</sup>*S.Rep. No. 296, supra* note 5, at 21, *reprinted in* [1957] U.S. Code Cong. & Ad. News 1823; *H.Rep. No. 435, supra* note 5, at 21.

<sup>47</sup>*Legislative Inquiry on the Price-Anderson Act*, By Subcommittee on Energy Research and Production of the House Committee on Science and Technology, 99th Cong., 2d Sess. at 5, 46 (Feb. 1986).

<sup>48</sup>DOE implementation of the civil and criminal penalty provisions of the 1988 Amendments has been continuing, as noted in the Department's Notice. 62 Fed.Reg. at 68276. A number of substantive "nuclear-safety related" rules for DOE to enforce under the 1988 Amendments have been promulgated in final form in the last few years. *Id.*

<sup>49</sup>134 Cong.Rec. S2310 (daily ed. Mar. 16, 1988).

<sup>50</sup>*See* 134 Cong. Rec. S2335 (daily ed. Mar. 16, 1988).

<sup>51</sup>It is significant that the Metzenbaum amendment was defeated, even though Senator Bumpers had  
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The terms "gross negligence" and "willful misconduct" cannot be precisely defined in today's tort law. It is completely impossible to draw any satisfactory lines of demarcation between degrees of negligence, so introduction of such terms into Price-Anderson only would ensure protracted litigation in the event of an accident. The idea of degrees of negligence has been rejected by many courts as a distinction "vague and impracticable in [its] nature, so unfounded in principle".<sup>52</sup> "Gross" negligence is merely the same thing as ordinary negligence, "with the addition", as an English court put it in 1843, "of a vituperative epithet".<sup>53</sup> In some States, courts do not even recognize different types of tortious conduct.<sup>54</sup>

Commercial insurance, if it were available, would not allow subrogation. Imagine an analogous situation where an automobile insurance policy allowed subrogation by the insurance company in ill-defined cases of an insured "gross negligence" or "willful misconduct": In that case, the automobile insurance company would pay the injured third party; and, then turn around and sue its insured to recover the payment, alleging the driver's "gross negligence" or "willful misconduct". Obviously, subrogation in that case would negate the car owner's reason for purchasing insurance in the first place. Similarly, any subrogation provision in Price-Anderson would destroy essential benefits of its coverage, and make as little sense as it would in the automobile insurance policy. The cost of liability claims arising out of Government activity (including engineering and construction) is as much a cost of the activity as is the cost of the steel and concrete that becomes a part of the facility.

Coupled with the small profits, if any, DOE contractors make and the severe new civil and criminal penalty provisions adopted in 1988, any subrogation provision would serve to even further reduce the dwindling number of DOE contractors.

Indemnifying contractors against nuclear liability does not somehow act as a disincentive to safety at DOE facilities. DOE contractors have a number of incentives to act safely. Price-Anderson indemnity covers only nuclear liability. Contractors still are exposed to conventional, nonnuclear liability for which they may or may not have insurance coverage and which has a history of much greater damage awards in

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further amended it by limiting any subrogation to the lesser of the "contract's award fee" or the limitation on liability (*i.e.*, about \$7 billion). *See* 134 Cong.Rec. S2325-S2329 (daily ed. Mar. 16, 1988).

<sup>52</sup>*See* Prosser and Keeton on the Law of Torts (5th Ed. 1984) 210 (quoting Heuston, Salmond on Torts (16th Ed. 1973) §80, at 224 note 69).

<sup>53</sup>*Wilson v. Brett*, 11 M.&W. 113, 116, 152 Eng.Rep. 737 (1843). *See also* *McAdoo v. Richmond & D.R. Co.*, 105 N.C. 140, 150, 11 S.E. 316 (1890) ("a mere expletive").

<sup>54</sup>*See* S.M. Speiser *et al.*, *The American Law of Torts* (1986) §§10:1 *et seq.*

the past than nuclear claims. Poor contractor performance could lead to debarment from future DOE contracts, and could be damaging to their reputations. Additionally, DOE exerts close supervision over its contractors to ensure that the public health and safety are protected. DOE by regulation, by the contractual provisions it imposes on contractors and/or by the degree of supervision it exercises over the activities of its contractors currently possesses adequate authority to encourage appropriate accountability on the part of its contractors.

Injection of this issue into the Price-Anderson debate again only would serve to confuse the real purpose of Price-Anderson, namely the protection of the public and the assurance to DOE that its source of potential contractors will not be diminished substantially by the elimination of those many prudent contractors that will not undertake contracts for which the risks are disproportionately greater than the potential financial returns. Furthermore, the Supreme Court of the United States found that this allegation (with respect to power plants) "simply cannot withstand careful scrutiny" because of the detailed Federal supervision of nuclear activities.<sup>55</sup>

With no substitute insurance available, diminishing Price-Anderson coverage would subject contractors to the whims of today's imaginative tort lawyers who would be the principal beneficiaries of any subrogation provision. It also would make it more likely that payments to the public would be delayed, because each individual defendant fearing possible liability would be less likely to cooperate in reaching settlements. All potentially liable parties would be compelled to hire their own lawyers to protect their uncovered exposure; extended investigations, negotiations, and probably litigation would ensue. The net result of any such provision would be to horribly complicate and greatly delay any payment to victims and to discourage many contractors, subcontractors and suppliers from participating in the nuclear business, both results being in direct contradiction of the two prime purposes of the whole Price-Anderson system.

Such a change also could eliminate coverage based on the act of a low-level employee or supplier whose conduct is "imputed" by law to his ultimate employer.

Many of the contractor operations at DOE facilities still involve sensitive national defense activities. Establishing the adversarial relationship inherent in subrogation provisions being put forward can only negatively affect the Government's options and security interests involved, because it would undermine qualified and responsible contractors' willingness to participate in such work.

In sum, if the Price-Anderson Act were amended to add some exclusion for "gross negligence" or "willful misconduct," contractors would have to assume they essentially would have no nuclear hazards liability coverage. They would have to assume post-accident analyses almost invariably would result in at least a plausible argument that the contractor had been at fault in failing to anticipate and avoid the accident. This is a principal reason why well-capitalized entities seek liability coverage in the first place.

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<sup>55</sup>*Duke Power Co.*, *supra* note 41, 438 U.S. at 87.



**16. Should the DOE Price-Anderson indemnification be extended to activities undertaken pursuant to a cooperative agreement or grant?**

The DOE Price-Anderson indemnification should be extended to activities undertaken pursuant to a "cooperative agreement" or "grant," if not already covered. Since there apparently is some issue within DOE as to whether such come within the meaning of the term "contract" as used in Section 170d of the Act, this point should be clarified.

**17. Should the DOE Price-Anderson indemnification continue to cover transportation activities under a DOE contract? Should coverage vary depending on factors such as the type of nuclear material being transported, method of transportation, and jurisdictions through which the material is being transported?**

The DOE Price-Anderson indemnification should continue to cover transportation activities under a DOE contract. Coverage should not vary depending on factors such as the type of nuclear material being transported, method of transportation, jurisdictions through which the material is being transported, or carrier (whether by tender or otherwise). In its 1983 Report to Congress, the Department said it believed cancellation of Price-Anderson's protective umbrella for transportation incidents would virtually eliminate DOE's ability to ship nuclear materials by commercial carriers, adversely impacting programs and doubtlessly causing a substantial increase in DOE's transportation costs.<sup>56</sup> In its 1987 Report, GAO pointed out that States may not agree to the transportation of high-level waste without DOE indemnification.<sup>57</sup> These conclusions remain true today. Continuing nuclear liability coverage is essential for public acceptance of DOE transportation activities. This, for example, already has been demonstrated in connection with proposed transportation of transuranic waste to WIPP and in rail transportation of spent fuel and other nuclear materials.

**18. To what extent, if any, should the DOE Price-Anderson indemnification apply to DOE clean-up sites? Should coverage be affected by the applicability of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or other environmental statutes to a DOE clean-up site?**

The DOE Price-Anderson indemnification should fully apply to DOE clean-up sites, including those being remediated under the Comprehensive Environmental Response, Compensation and Liability Act

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<sup>56</sup>1983 DOE Report, *supra* note 2, at 4.

<sup>57</sup>1987 GAO Report, *supra* note 4, at 6, 30.

(CERCLA) or other environmental statutes applicable to a DOE clean-up site. On November 29, 1994, the DOE General Counsel issued a "preliminary analysis" that, "[t]o the extent that activities under a response action contract [as defined in Section 119(e)(1) of CERCLA] with the Department result in a nuclear incident leading to claims of public liability, Price-Anderson indemnification would be available to a response action contractor."<sup>58</sup> Assuming that DOE still stands by this conclusion, Price-Anderson coverage should not be affected by the applicability of CERCLA. In any case, it would be advisable for the Act to be amended to make it more clear that Price-Anderson applies to DOE clean-up sites.

**19. To what extent, if any, should the DOE Price-Anderson indemnification be available for liability resulting from mixed waste at a DOE clean-up site?**

The DOE Price-Anderson indemnification should be available for liability resulting from "mixed waste" at a DOE clean-up site. "Mixed waste" is waste that contains both "radioactive" and "hazardous" components regulated under both the AEA and the Resource Conservation and Recovery Act (RCRA).<sup>59</sup> RCRA excludes "source material," "byproduct material," or "special nuclear material" (as defined in the AEA) from regulation under RCRA.<sup>60</sup> However, the inseparability of radioactive and hazardous constituents in mixed waste effectively negates any effect of this exclusion. To extend Price-Anderson coverage only to damages caused by the radioactive component would be impractical and not protective of the public.

The November 29, 1994 DOE General Counsel Memorandum, *supra* note 59, at 3-4, addressed the issue of Price-Anderson indemnification for mixed waste as follows:

As to incidents involving mixed waste, Price-Anderson indemnification would provide coverage for public liability that resulted from Department of Energy contract activity involving source, special nuclear or byproduct nuclear materials. Damages resulting from the nonnuclear component of mixed waste, however, probably would not constitute a "nuclear incident" within the meaning of section 11q. of the Atomic Energy Act. Although it is reasonable to assume that, in an incident involving mixed waste, a court would attempt

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<sup>58</sup>See Memorandum re: General Counsel Response to Questions on Price-Anderson Indemnification Coverage for Department of Energy Contractors Performing Response Action Activities from Assistant Secretary for Environmental Management to Distribution (Jan. 9, 1995) (and attached Nov. 29, 1994 Memorandum from DOE General Counsel).

<sup>59</sup>42 U.S.C. §§6901 *et seq.* As a result of the Federal Facility Compliance Act of 1992, Pub. L. No. 102-386, 106 Stat. 1505, 42 U.S.C. §6901 note; and other matters, DOE has more clearly become subject to RCRA since the 1988 Price-Anderson Amendments Act.

<sup>60</sup>42 U.S.C. §6903(27).

to provide coverage for that portion of liability resulting from the nuclear component, it is difficult to predict with any certainty how such an apportionment might be accomplished.

Given this uncertainty, the DOE Report to Congress should recommend that the Act be amended to make it more clear that the DOE Price-Anderson indemnity covers any and all "public liability" arising from "mixed waste." This probably should be done by adding a definition of "mixed waste" to the AEA and amending the definition of "nuclear incident" in Section 11q to include "mixed waste."<sup>61</sup>

**20. Should the definition of nuclear incident be expanded to include occurrences that result from DOE activity outside the United States where such activity does not involve nuclear material owned by, and used by or under contract with the United States? For example, should DOE Price-Anderson indemnification be available for activities of DOE contractors that are undertaken outside the United States for purposes such as non-proliferation, nuclear risk reduction or improvement of nuclear safety? If so, should the DOE Price-Anderson indemnification for these activities be mandatory or discretionary?**

DOE Price-Anderson indemnification should apply to activities of DOE contractors that are undertaken outside the United States for important purposes such as non-proliferation, nuclear risk reduction or improvement of nuclear safety. For the reasons stated in response to Question 2, coverage should be mandatory for all activities done under DOE contracts.

The coverage for nuclear incidents outside the United States should be amended to cover more circumstances, such as the Department's international nuclear safety assistance program to improve the safety of Soviet-designed nuclear facilities. At the present time, the statutory definition of "nuclear incident" limits coverage outside the United States to situations where the nuclear material is "owned by, and used by or under contract with, the United States...."<sup>62</sup> Additionally, foreign coverage, when compared to domestic coverage, varies in several respects under Section 170d: The class of persons eligible for indemnity coverage is smaller. Coverage extends only to the prime contractor with the indemnity agreement, subcontractor, suppliers of any tier, and others whose liability arises by reasons of activities connected with such contracts or subcontracts (rather than "anyone liable"). Further, the wide latitude given when defining the person indemnified does not apply to foreign coverage.

Generally because of the "owned by... the United States" requirement, Price-Anderson does not protect contractors funded by DOE to do Congressionally funded nuclear safety work abroad. DOE

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<sup>61</sup>The 1988 Act added a definition of "transuranic waste," 42 U.S.C. §2014ee, but the issue of "mixed waste" was not addressed therein.

<sup>62</sup>See 42 U.S.C. §2014q.

recently has provided a few contractors indemnification under Public Law 85-804 for limited nuclear nonproliferation work in the former Soviet Union. However, the Department has declined to provide such coverage for work on former Soviet bloc nuclear power reactors (even though the risk of such work is generally greater than the work for which DOE indemnification has been provided). The latter has led a number of contractors to decline to do DOE-funded work on Soviet-designed power plants.

**21. Is there a need to clarify what tort law applies with respect to a nuclear incident in the United States territorial sea? Should the applicable tort law be based on state tort law?**

The DOE Notice states the term "Territories" included in the definition of "United States" in Section 11bb. of the AEA includes the United States "territorial sea" (the maritime area that extends twelve miles offshore, as defined in Presidential Proclamation No. 5928 (December 27, 1988, 54 Fed.Reg. 777)).<sup>63</sup> Apparently, there is some question as to whether or not State tort law would apply in the maritime area from three to twelve miles offshore. (Prior to the Presidential Proclamation, the United States "territorial sea"

extended three miles offshore.) This matter should be clarified. In any case, the applicable tort law with respect to a nuclear incident in the "United States," including the territorial sea, should be State tort law for the reasons given in response to Questions 23 and 24.

**22. Should the definition of nuclear incident be modified to include all occurrences in the United States exclusive economic zone? What would be the effects, if any, on the shipment of nuclear material in the United States exclusive economic zone if such a modification were or were not made? What would be the effects, if any, on the response to an incident involving nuclear material in the United States exclusive economic zone if such a modification were or were not made?**

The DOE Notice states the term "Territories" included in the definition of "United States" in Section 11bb of the AEA does not include the United States "exclusive economic zone" (EEZ) (the maritime area between twelve and two hundred miles offshore).<sup>64</sup> The current effect of this is that a "nuclear incident" occurring in the EEZ generally is not covered by Price-Anderson.<sup>65</sup> While there probably are few instances in which a nuclear incident could occur in the EEZ, it would be beneficial for such to be covered by Price-

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<sup>63</sup>62 Fed.Reg. at 68275, note 29 and accompanying text.

<sup>64</sup>*Id.*

<sup>65</sup>An event in the EEZ now could be covered under the definition of "nuclear incident," 42 U.S.C. §2014q, where the nuclear material is "owned by, and used by or under contract with, the United States...."

Anderson. This would better protect the public, and eliminate any controversy as to the nuclear liability coverage that might apply in such a case.

**23. Should the reliance of the Act on state tort law continue in its current form? Should uniform rules already established by the Act be modified, or should there be additional uniform rules on specific topics such as causation and damage? Describe any modification or additional uniform rule that would be desirable and explain the rationale.**

The reliance of the Act on State tort law should continue in its current form. Uniform rules already established by the Act should not be modified, and there should not there be additional uniform rules on specific topics such as causation and damage. Since Price-Anderson first was adopted in 1957, there has been considerable resistance to the total displacement of State law by creation of a "Federal tort" for nuclear accidents. Congress amended Price-Anderson in 1966 to require those who were indemnified, including contractors, to waive certain legal defenses to actions in the event of an "extraordinary nuclear occurrence" (ENO).<sup>66</sup> The waiver was designed to maximize protection of the public by eliminating legal barriers to claims that varied among the States. At the time of the ENO amendment, it was felt that, if recovery of Price-Anderson funds were left entirely to the provisions and principles of State tort law in the event of a major nuclear accident, many valid claims might be tied up in the courts for years. Particular problems that were anticipated were varying statutes of limitations and the possibility that some States might not apply "strict liability" to a serious nuclear accident. The result of this balance of competing factors was the "waiver" system in which entities covered by Price-Anderson are required to waive certain State law defenses (*i.e.*, contributory negligence, assumption of risk, charitable or governmental immunity, unforeseeable intervening causes, and "short" statutes of limitations). As a result of the defenses that would be waived in the event of an ENO, a person suffering nuclear injury would need show only a causal connection between his or her injury or damage. In other words, when there is an ENO, there essentially is a "no-fault" recovery system. This remains an effective way to address the issue of varying State tort laws.

**24. Should the Act be modified to be consistent with the legal approach in many other countries under which all legal liability for nuclear damage from a nuclear incident is channeled exclusively to the operator of a facility on the basis of strict liability? If so, what would be the effect, if any,**

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<sup>66</sup>Act of October 13, 1966, Pub.L. No. 89-645, 80 Stat. 891. *See generally* Proposed Amendments to Price-Anderson Act Relating to Waiver of Defenses: Hearings Before the Joint Committee on Atomic Energy (JCAE), 89th Cong., 2d Sess. 3 (1966); S.Rep. No. 1605, 89th Cong., 2d Sess., *reprinted in* [1966] U.S. Code Cong. & Ad. News 3201-06; H.Rep. No. 2043, 89th Cong., 2d Sess. 6 (1966); Selected Materials on Atomic Energy Indemnity and Insurance Legislation, JCAE, 93d Cong., 2d Sess. (March 1974) at 229-332.

**on the system of financial protection, indemnification and compensation established by the Act?**

The Act should not be modified to be consistent with the legal approach in many other countries under which all legal liability for nuclear damage from a nuclear incident is channeled exclusively to the operator of a facility (*i.e.*, legal channeling) on the basis of strict liability. This would require preemption of State tort laws, a constitutionally permissible, but politically impractical, alternative rejected by Congress in 1957 and again in 1966 when the "extraordinary nuclear occurrence" provision was added to the Act (as discussed in response to Question 23). In the absence of an ENO, the standard for liability (strict or otherwise) should be left to State tort law. While pure legal channeling might be more efficient, it simply is too late for the United States to change its system to legal channeling from "economic channeling" (provided through the "omnibus" feature discussed in response to Question 5). Furthermore, this fact recently was recognized when the International Atomic Energy Agency adopted the new Convention on Supplementary Compensation for Nuclear Damage (CSC). An annex to the CSC recognizes economic channeling under Price-Anderson as equivalent to the protection afforded under the Vienna Convention's legal channeling provisions.

**25. Should the procedures in the Act for administrative and judicial proceedings be modified? If so, describe the modification and explain the rationale?**

The procedures in the Act for administrative and judicial proceedings should not be modified.<sup>67</sup> No reasons for doing so have been identified, particularly given the lack of Price-Anderson claims over the last forty years.

**26. Should there be any modification in the types of claims covered by the Price-Anderson system?**

There are no apparent reasons for any modification in the types of claims covered by the Price-Anderson system (other than the clarifications as to coverage for waste sites and "mixed waste" discussed in response to Questions 18 and 19).

**27. What modifications in the Act or its implementation, if any, could facilitate the prompt payment and settlement of claims?**

There are no apparent reasons for any modifications in the Act or its implementation to facilitate the prompt payment and settlement of claims. Section 170m of the Act already contains sufficient

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<sup>67</sup>See 42 U.S.C. §2210n.

provisions for payment of immediate assistance following a nuclear incident (without even requiring the securing of releases from claimants).

**28. Should DOE continue to be authorized to issue civil penalties pursuant to section 234A of the AEA? Should section 234A be modified to make this authority available with respect to DOE activities that are not covered by the DOE Price-Anderson indemnification? Should DOE continue to have authority to issue civil penalties if the Act is modified to eliminate the DOE Price-Anderson indemnification with respect to nuclear incidents that results from the gross negligence or willful misconduct of a DOE contractor?**

DOE should continue to have authority to issue civil penalties pursuant to Section 234A, *unless* the Act is modified to eliminate the DOE Price-Anderson indemnification with respect to nuclear incidents that results from the "gross negligence" or "willful misconduct" of a DOE contractor. As discussed in response to Question 15, civil penalties (and enhanced criminal penalties) were introduced in the 1988 Amendments as the compromise substitute for any subrogation provision. No justification whatsoever has been shown for suggesting that subrogation would be more effective in promoting "contractor accountability" than existing civil or criminal penalties. Similarly, there does not appear to be any reason at this stage for section 234A to be modified to make this authority available with respect to DOE activities that are not covered by the DOE Price-Anderson indemnification.

**29. To what extent does the authority to issue civil penalties affect the ability of DOE to attain safe and efficient management of DOE activities? To what extent does this authority affect the ability of DOE and its contractors to cooperate in managing the environment, health, and safety of DOE activities through mechanisms such as integrated safety management? To what extent does this authority help contain operating costs including the costs of private insurance if it were to be required?**

The extent to which the authority to issue civil penalties affects the ability of DOE to attain safe and efficient management of DOE activities and to cooperate in managing the environment, health, and safety of DOE activities through mechanisms such as integrated safety management remains to be demonstrated. To what extent this authority helps contain operating costs also remains to be demonstrated. In addition to civil penalties, DOE long has had various other mechanisms to influence contractor behavior, including criminal penalties, fee reductions, nonrenewals, debarments, terminations (as recently demonstrated at Brookhaven National Laboratory<sup>68</sup>), etc. The costs of private insurance if it were to be required (and were

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<sup>68</sup>See DOE Press Releases R-98-001 (January 5, 1998) and R-97-142 (December 22, 1997) (the latter also noting DOE had issued 19

(continued...)

available for some nuclear risks) are discussed in response to Question 11.

**30. Should there continue to be a mandatory exemption from civil penalties for certain nonprofit contractors? Should the exemption apply to for-profit subcontractors and suppliers of a nonprofit contractor? Should the exemption apply to a for-profit partner of a nonprofit contractor?**

The Group takes no position at this time on whether or not there should be a mandatory exemption from civil penalties for certain nonprofit contractors.

**31. Should DOE continue to have discretionary authority to provide educational nonprofit institutions with an automatic remission of civil penalties? If so, should the remission be available where the nonprofit entity has a for-profit partner, subcontractor, or supplier?**

The Group takes no position at this time on whether or not DOE should continue to have discretionary authority to provide educational nonprofit institutions with an automatic remission of civil penalties.

**32. Should the maximum amount of civil penalties be modified? If so, how?**

There is no apparent reason for modifying the maximum amount of civil penalties. At the time of its adoption, Chairman Johnston (the floor manager for the Senate Energy Committee) said this provision "...represents a good balance between not driving the good contractors out of business on the one hand and yet providing a severe enough penalty. After all, \$100,000 per day is a tremendous penalty and we think it is sufficient to ensure that [contractors'] conduct will be of the very highest order."<sup>69</sup> Furthermore, the DOE civil penalty authority is equivalent to, if not higher than, that of other federal safety agencies.<sup>70</sup>

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(...continued)

Notice of Violation and nine civil penalties totaling \$415,000 between January 1996 and December 1997).

<sup>69</sup>134 Cong.Rec. S2310 (daily ed. Mar. 16, 1988).

<sup>70</sup>*See, e.g.*, 42 U.S.C. §2282 (providing NRC civil penalties up to \$100,000 per day); 42 U.S.C. §7413(b) (providing Environmental Protection Agency (EPA) Clean Air Act civil penalties for stationary sources up to \$25,000 per day); 42 U.S.C. §7524 (providing EPA Clean Air Act civil penalties for mobile sources up to \$25,000 per day); 33 U.S.C. §1319(d) (providing EPA Clean Water Act civil penalties up to \$25,000 per day); 42 U.S.C. §9609(b) (providing EPA CERCLA civil penalties up to \$25,000 per day); (continued...)



**33. Should the provisions in section 234A.c. concerning administrative and judicial proceedings relating to civil penalties be modified? If so, how?**

There is no apparent reason for modifying the provisions in Section 234A.c concerning administrative and judicial proceedings relating to civil penalties. To date, there current provisions apparently never have been tested. The Section 234A.c provisions were modeled on the Electric Consumer Protection Act of 1986,<sup>71</sup> which has not been modified.

**34. Should there be any modification in the authority in section 223.c. to impose criminal penalties for knowing and willful violations of nuclear safety requirements by individual officers and employees of contractors, subcontractors and suppliers covered by the DOE Price-Anderson indemnification? Should this authority be extended to cover violations by persons not indemnified?**

There is no apparent reason for any modification in the authority in section 223.c to impose criminal penalties for knowing and willful violations of nuclear safety requirements by individual officers and employees of contractors, subcontractors and suppliers covered by the DOE Price-Anderson indemnification. It is not necessary that this authority be extended to cover violations by persons not indemnified. Alternative criminal penalty authority already exists.<sup>72</sup>

#### **IV. Conclusions**

For the reasons stated herein, the *ad hoc* Energy Contractors Price-Anderson Group submits DOE

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(...continued)

\$25,000 per day for first violation and \$75,000 per day for subsequent violations); 42 U.S.C. §6928 (providing EPA RCRA civil penalties up to \$25,000 per day); 15 U.S.C. §2615 (providing EPA Toxic Substances Control Act civil penalties up to \$25,000 per day); 49 U.S.C. §1471 (providing Federal Aviation Administration Federal Aviation Act civil penalties up to \$10,000 per day for commercial air carriers); 49 U.S.C. §5123 (providing Department of Transportation (DOT) Hazardous Materials Transportation Act civil penalties up to \$25,000 per day); 49 U.S.C. §16101 (providing DOT Natural Gas Pipeline Safety Act civil penalties up to \$5,000 per day); and 29 U.S.C. §666 (providing Department of Labor Occupational Safety and Health Act civil penalties up to \$7,000 per day and \$70,000 for willful or repeated violation).

<sup>71</sup>Pub. L. No. 99-426, §12(d); 100 Stat. 1256 (codified at 16 U.S.C. §823b(d)).

<sup>72</sup>*See, e.g.*, 42 U.S.C. §2273(a).

should present to Congress a report that strongly recommends continuation (with above-described modifications and clarifications) of the nuclear hazards liability protection provided by the Price-Anderson Act.

Attachments A and B

Dated: January 30, 1998

**Respectfully submitted,**

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**Legislative History  
Of  
Government Contractor Indemnification  
Under  
The Price-Anderson Act**

**Prepared for  
The Energy Contractors Price-Anderson Group**

**By  
Omer F. Brown, II  
Washington, D.C.**

**January 1998**

**Legislative History of Government Contractor Indemnification  
Under the Price-Anderson Act**

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## **Legislative History of Government Contractor Indemnification Under the Price-Anderson Act**

### **Executive Summary**

**The Price-Anderson Act expressly authorizes and requires the U.S. Department of Energy (DOE) to indemnify its contractors against "public liability" in the event of a "nuclear incident." This statutory authority first was adopted in 1957; and, since then, has been amended and extended several times. Each has further expanded protection of the public. Unless again extended, DOE's authority to enter into new indemnity agreements with its contractors (Section 170d) will expire on August 1, 2002 (although the law will continue after that date for previously executed contracts).**

**More attention historically has been focused on nuclear liability coverage for licensed facilities, particularly nuclear power plants. However, with no new nuclear power plants currently being ordered and with all existing power plants "grandfathered," the 2002 Price-Anderson expiration date is of more immediate concern with respect to DOE contractor coverage than U.S. Nuclear Regulatory Commission (NRC) licensee coverage.**

**In determining whether to extend DOE contractor coverage again, Congress should recall the purpose of Section 170d, which has been intended to provide the public with protection substantially the same as that for NRC-licensed nuclear activities. To determine the rationale of Congress in providing and extending thrice contractor indemnification, the extensive legislative history of Price-Anderson must be examined. This detailed study can be used as a reference, since many issues that may arise already have been considered by past Congresses.**

**Governmental policy of contractor indemnification for damages and injuries caused by nuclear accidents has its origins in agreements negotiated by the Manhattan Engineering District (MED) of the War Department beginning in the early 1940s. The Atomic Energy Act of 1954 ended the government monopoly over possession, use, and manufacturing of "special nuclear material," *i.e.* the 1954 Act allowed direct participation by private industry in nuclear development. Private entry, however, was slowed by the uncertainty over liability. Faced with the reality that private industry might withdraw from participation in the nuclear program as a result of unresolved liability issues, Congress in 1957 adopted the Price-Anderson Act as an amendment to the 1954 Act.**

**The 1957 Price-Anderson Act had two basic goals: (i) to protect the public by guaranteeing funds to compensate for injury and damages sustained in a potentially catastrophic, yet unlikely,**

nuclear accident, and (ii) to set a ceiling on liability for private industry to foster growth and development of peaceful uses of atomic energy.

The Energy Reorganization Act of 1974 abolished the Atomic Energy Commission and the Joint Committee on Atomic Energy. Price-Anderson responsibility was allocated between two separate agencies and several committees of the Congress. NRC now administers Price-Anderson coverage for its licensees, while DOE administers coverage for its contractors.

Congress last began considering whether to extend the Price-Anderson Act in 1983 shortly after the NRC and DOE submitted the reports required by the 1975 extension (when only the Joint Committee had reviewed the legislation). In 1983-1988, Congressional action was much more protracted and controversial, and concentrated more attention on DOE contractor coverage. Three House (Energy, Interior and Science) and two Senate (Energy and Environment) Committees asserted jurisdiction over the most recent Price-Anderson extension. A number of hearings were held between 1984 and 1987. The five Committees reported bills, but the 99th Congress adjourned before any could reach the floor of either house. Following reintroduction of bills early in the 100th Congress and additional hearings, the House passed a bill at the end of July 1987. It was not until March 1988 that a Price-Anderson bill reached the Senate floor. Final passage of the 1988 amendments did not come until August of that year. The President signed the final bill on August 20, 1988.

For nuclear power plant licensees, the principal changes brought about by the 1988 amendments related to an increase in the overall limitation on liability, coverage for "precautionary evacuations", and clarification of coverage of costs for investigating, settling and defending claims. DOE contractor coverage was subject to similar changes, in addition to others.

Certain DOE "contractor accountability" provisions (new civil and enhanced criminal penalties for nuclear safety violations) were added in 1988, essentially as a compromise substitute for subrogation rights against DOE contractors. The 1988 amendments made coverage for DOE contractors mandatory for the first time in order to make coverage apply in more situations and to avoid requiring DOE to determine administratively whether a particular activity presented a "substantial" nuclear risk. The 1988 amendments specifically provided that Price-Anderson coverage applies to DOE's nuclear waste activities.

The 1988 amendments substantially increased the liability limit for NRC-licensed nuclear powerplants; and, for the first time, provided the indemnity and liability limit for DOE contractors would be equal to the highest amount applicable to power plants. For power plants, the retrospective premium was increased to \$63 million per incident per plant (from \$5 million). Additionally, the retrospective premium was made subject to inflation indexing; and, became subject to an additional five percent surcharge for legal costs. The effect of these changes has been to increase the limitation on liability (from about \$715 million per incident at a power plant and \$500

million at a DOE facility before the 1988 amendments, to about \$7.313 billion at both power plants and DOE facilities after the 1988 amendments, and to about \$9.4 billion at DOE contractor facilities as of January 1998).

The 1988 amendments provided that both DOE and NRC should submit to Congress by August 1, 1998 reports on the need to continue or modify the Price-Anderson Act again. DOE recently has established an internal Task Force to draft its report; and, on December 31, 1997, published a Notice of Inquiry seeking public comments to assist in the preparation of its report. Several of the issues in the DOE Federal Register Notice have been addressed by Congress in the past (as described herein).

It is important to recognize that general government authority to indemnify contractors preceded the Price-Anderson Act, and presumably would continue to exist in the absence of Price-Anderson. Specific inclusion of contractors in the 1957 Act was an attempt to correct the deficiencies of contractor indemnification as it began under the MED, while furthering the broader goals and purposes of Price-Anderson, especially protection of the public. Statutory contractor indemnification was seen at the time as desirable for several reasons that are equally valid today.

Protection of the public has been the principal purpose of the Price-Anderson Act. The statutory scheme of indemnification and/or insurance has been intended to ensure the availability to the public of adequate funds in the event of a catastrophic, yet unlikely, nuclear accident. Other benefits to the public include such features as emergency assistance payments, consolidation and prioritization of claims in one court, channeling of liability through the "omnibus" feature (permitting a more unified and efficient approach to processing and settlement of claims), and waivers of certain defenses in the event of a large accident ("extraordinary nuclear occurrence") (providing a type of "no-fault" coverage).

If a very large accident were to happen, Congress recognized in 1957 (and again at the time of the 1988 Amendments) that a private company (such as the DOE prime contractor or subcontractor) probably could not bear the costs alone. The company would be forced into bankruptcy, leaving injured claimants without compensation. Price-Anderson was seen as a means of preventing this from happening by providing a comprehensive, compensation-oriented system of liability coverage for DOE contractors and NRC licensees.

At the same time, if the accident were so large as to exceed the statutory indemnity ceiling, Congress first recognized in 1957 it would be capable of legislating additional funds. Indeed, the Price-Anderson Act specifically has provided since 1975 that, in the event of a nuclear incident involving damages in excess of the statutory limitation on liability, Congress will thoroughly review the particular incident and take whatever action is deemed necessary and appropriate to protect the public.



**During consideration of the last extension, the Senate Energy Committee Report summarized the importance of Price-Anderson as follows:**

**In general, failure to extend the Price-Anderson Act would result in substantially less protection for the public in the event of a nuclear incident. In the absence of the Act, compensation for victims of a nuclear incident would be less predictable, less timely, and potentially inadequate compared to the compensation that would be available under the current Price-Anderson system.**

**Five Congressional Committees with oversight of DOE's nuclear activities (Senate Energy and Environment, and House Energy, Interior and Science) supported renewal of the Department's Price-Anderson indemnification authority, as did the General Accounting Office.**

**Although government contractors may have received indemnification before Price-Anderson, the types of coverage varied with unpredictable results. Consequently, potential contractors generally were deterred from associating with nuclear development, thereby deviating from the goals of the 1954 Atomic Energy Act to encourage such activities. DOE contractors strenuously reiterated the same point prior to the 1988 extension, saying they would decline to work for DOE without nuclear liability protection of the type afforded by the Price-Anderson Act. Alternatives would be using Federal employees or possibly less responsible, less competent, "judgment-proof" contractors.**

**Price-Anderson rendered nuclear liability coverage more uniform, and, since the 1988 Amendments, has been mandatory for DOE contractors (as it has been for power plants since 1957). For example, the Act currently provides coverage for any nuclear accident if it occurs at the contract location or takes place at other locations and arises in the course of contract performance by any person for whom the contractor must assume responsibility. Also, protection is extended to incidents that arise out of or in the course of transportation or that involve items produced or delivered under the contract. Before the passage of Price-Anderson, indemnity agreements had to be negotiated at each tier of contractors. Moreover, the different scopes of coverage caused by contract negotiations at each tier could result in haphazard protection of the public. Price-Anderson corrected this deficiency.**

**After a thorough examination of the issue in the last extension, Congress, as it had in 1957, declined to make an exclusion for damages in case of "gross negligence," "willful misconduct" or "bad faith" of any contractor representatives. Enhanced criminal and civil penalty provisions were added in 1988 to further encourage "contractor accountability" after Congress rejected any subrogation provision.**

**After over forty years of indemnification, private industry has maintained a large role in assisting the Government in its own nuclear activities without significant damage or injury to the**

**public and with only one substantial settlement. In other words, Price-Anderson contractor indemnification is a system that has worked well.**

## **Legislative History of Government Contractor Indemnification Under the Price-Anderson Act**

### **I. Introduction**

**The Price-Anderson Act<sup>73</sup> expressly authorizes and requires the U.S. Department of Energy (DOE) to indemnify its contractors against public liability in the event of a nuclear incident. Specifically, Section 170d provides:**

**In addition to any other authority the Secretary of Energy (in this section referred to as the "Secretary") may have, the Secretary shall, until August 1, 2002, enter into agreements of indemnification under this subsection with any person who may conduct activities under a contract with the Department of Energy that involve the risk of public liability....<sup>74</sup>**

**This statutory authority first was adopted in 1957; and, since then, has been amended several times and extended three times for ten- or fifteen-year periods. Unless again extended, DOE's authority to enter into new indemnity agreements with its contractors will expire on August 1, 2002 (although the law will continue after that date for previously executed contracts).**

**More attention historically has been focused on nuclear liability coverage for licensed facilities, particularly nuclear power plants. However, with no new nuclear power plants currently being ordered and with all existing power plants "grandfathered," the 2002 Price-Anderson expiration date is of more immediate concern with respect to DOE contractor coverage than U.S. Nuclear Regulatory Commission (NRC) licensee coverage.<sup>75</sup>**

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<sup>73</sup>Act of September 2, 1957, Pub. L. No. 85-256, 71 Stat. 576. The Price-Anderson Act is codified as Sections 11 (definitions) and 170 (substantive provisions) of the Atomic Energy Act of 1954, as amended; 42 U.S.C. §§2014, 2210.

<sup>74</sup>42 U.S.C. §2210d(1)(A).

<sup>75</sup>This fact was recognized at the time of the 1988 extension of the Price-Anderson Act as well. *See* H.Rep. 100-104, Part 1, 100th Cong., 1st Sess. 6 (May 21, 1987) [hereinafter cited as *1987 House Interior Committee Report*]; H.Rep. 100-104, Part 2, 100th Cong., 1st Sess. 6 (July 22, 1987) [hereinafter cited as *1987 House Science Committee Report*]; H.Rep. 100-104, Part 3, 100th Cong., 1st Sess. 17 (July 22, 1987) [hereinafter cited as *1987 House Energy Committee Report*] (noting the House Energy Committee viewed the need to extend the Act as "urgent" and that the impact of

(continued...)

In determining whether to extend DOE contractor coverage again, Congress should recall the purpose of Section 170d, which has been intended to provide the public with protection substantially the same as that for NRC-licensed nuclear activities.<sup>76</sup> The scope of present contractor indemnification authority basically can be determined by reference to the language of Section 170d, the definitions in Section 11 of key concepts (such as "public liability", "extraordinary nuclear occurrence", "nuclear incident", "person indemnified", "public liability," and "precautionary evacuation"), and the DOE Acquisition Regulations (DEAR).<sup>77</sup> None of these sources, however, fully illustrates or explains the Congressional intent behind contractor indemnification beginning with the 1957 Act and continuing through the more recent Amendments. Furthermore, there are no reported cases interpreting the Congressional goals and policies of contractor coverage.<sup>78</sup> Thus, to determine the rationale of Congress in providing and extending

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expiration "would be most severe" with respect to DOE). Nuclear power plants are covered for the life of the NRC license at the time the licensee receives a construction permit, while DOE contracts typically are entered into for up to only five years. The average length of DOE contracts is three years. *See* S.Rep. No. 100-70, Calendar No. 166, 100th Cong., 1st Sess. (June 12, 1987) at 16-18, 35-36, 49-58; *reprinted in* [1988] U.S. Code Cong. & Ad. News 1424, 1428-1430, 1446-1447, 1457-1466 [hereinafter cited as *1987 Senate Energy Committee Report*] (describing, *inter alia*, why other alternatives available to DOE would not provide as much protection to the public).

<sup>76</sup>*See* S.Rep. No. 296, 85th Cong., 1st Sess. 21-22 (1957) [hereinafter cited as *S.Rep. No. 296*], *reprinted in* [1957] U.S. Code Cong. & Ad. News 1803, 1823; H.Rep. No. 435, 85th Cong., 1st Sess. 21-22 (1957) [hereinafter cited as *H.Rep. No. 435*]; *Government Indemnity and Reactor Safety*: Hearings Before the Joint Comm. on Atomic Energy (JCAE), 85th Cong., 1st Sess. 107, 149, 158, 162-63, 176 (1957) [hereinafter cited as *1957 Hearings*]; L.R. Rockett, Financial Protection Against Nuclear Hazards: Thirty Years' Experience Under the Price-Anderson Act, Legislative Drafting Research Fund of Columbia University 1 (January 19, 1984) [hereinafter cited as *1984 Columbia Study*]. While it concentrates on NRC licensee coverage, the *1984 Columbia Study* contains much background information applicable to DOE contractor coverage as well.

<sup>77</sup>DOE's standard nuclear hazards indemnity agreement is part of the DEAR, and is codified as DEAR §952.250-70. *See also* DEAR Subpart 950.70 and §970.2870.

<sup>78</sup>*See* J.F. McNett, Nuclear Indemnity for Government Contractors Under the Price-Anderson Act, 14 Pub. Contract L.J. 40, 46 (1983) [hereinafter cited as *McNett*] (there is no case law); DOE, The Price-Anderson Act - Report to Congress as Required by Section 170p of the Atomic Energy Act of 1954, as Amended 3 (August 1, 1983) [hereinafter cited as *1983 DOE Report*] (only one significant incident (the 1961 SL-1 reactor incident in Idaho) had been recorded). At the time of the last

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thrice contractor indemnification, the legislative history of Price-Anderson must be examined. This legislative history is extensive, and stretches over more than four decades during which Congress repeatedly has reaffirmed the Act's original purposes.

## II. Historical Background

### A. Indemnification by Manhattan Engineering District

Governmental policy of contractor indemnification for damages and injuries caused by nuclear accidents has its origins in the contractor agreements negotiated by the Manhattan Engineering District (MED) of the War Department beginning in the early 1940s.<sup>79</sup> The MED recruited various industrial organizations to construct and operate government nuclear production facilities during World War II. This was done to gain the full advantage of the skills of American

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extension, the only payments that had been made totaled about \$1.5 million (including the settlements of \$266 thousand following the 1961 Idaho incident). See S.Rep. 100-218, Calendar No. 435, 100th Cong., 1st Sess. 62, App. IV (Nov. 12, 1987), *reprinted in part in* [1988] U.S. Code Cong. & Ad. News 1476 [hereinafter cited as *1987 Senate Environment Committee Report*]; *1987 Senate Energy Committee Report*, *supra* note 3, at 16, *reprinted in* [1988] U.S. Code Cong. & Ad. News 1428; *1987 House Interior Committee Report*, *supra* note 3, at 5; *1987 House Energy Committee Report*, *supra* note 3, at 17. The House Science Committee concluded in its 1987 Report that this "federal insurance program" saves the government money by self-insuring. *1987 House Energy Committee Report*, *supra* note 3, at 4-5. It noted that, over the previous thirty years, expenditures under DOE contracts amounted to \$124 billion, so claims then corresponded to only 1/1000 of one percent of the expenditures. *Id.* at 5. Since the *1983 DOE Report*, there was a settlement by DOE of about \$73 million of the *In Re Fernald Litigation*, No. C-1-85-149 (S.D. Ohio). That 1989 settlement is the only significant U.S. Government payment ever made under the Price-Anderson Act.

<sup>79</sup>Operations Under Indemnity Provisions of the Atomic Energy Act of 1954: Hearings Before the Subcomm. on Research, Development, and Radiation of the JCAE, 87th Cong., 1st Sess. 11-13 (1961) [hereinafter cited as *1961 Hearings*]; Government Indemnity for Private Licensees and AEC Contractors Against Reactor Hazards: Hearings Before the JCAE, 84th Cong., 2d Sess. 76-84 (1956) [hereinafter cited as *1956 Hearings*] (Statement by William Mitchell, General Counsel, Atomic Energy Commission, with several typical indemnities attached); Atomic Energy Commission Staff Study of the Price-Anderson Act (January 1974) [hereinafter cited as *1974 AEC Staff Study*] *reprinted in* Selected Materials on Atomic Energy Indemnity and Insurance Legislation, JCAE, 93d Cong., 2d Sess. (March 1974) at 30-35 [hereinafter cited as *1974 JCAE Selected Materials*]; *McNett*, *supra* note 6, at 41-42.

industry.<sup>80</sup> Private contractors, who entered into agreements with the government, often sought and were given indemnities "against extraordinary hazards associated with the production and use of nuclear materials."<sup>81</sup> This was because insurance of the type normally available to industrial enterprises was not obtainable against the risks involved. The actual contracts often "contained broad indemnity provisions which held the contractor harmless against any loss, expense, claim, or damage arising out of or in connection with the performance of a contract."<sup>82</sup> The provision was generally limited to the risks associated with the "radioactive, toxic, explosive, or other hazardous properties of nuclear materials".<sup>83</sup> In addition, indemnity could be extended by MED to include the contractor who "manufactures, transports, possesses, uses, disposes of, or otherwise handles nuclear matter" in connection with the contract.<sup>84</sup> The indemnity arrangements, for the most part, were of necessity made subject to the availability of funds.<sup>85</sup>

#### **B. Atomic Energy Act of 1946**

The Atomic Energy Act of 1946,<sup>86</sup> which established the Atomic Energy Commission (AEC), vested contractor indemnity authority of the MED in the AEC. The AEC indemnity coverage continued under the scheme instituted by the MED, and on a few occasions covered research and development work in private or mixed facilities as well as the operation of the AEC's own production facilities.<sup>87</sup>

#### **C. Atomic Energy Act of 1954**

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<sup>80</sup>1957 *Hearings*, *supra* note 4, at 12; S.Rep. No. 1211, 79th Cong., 2d Sess. 15 (1946), *reprinted in* [1946] U.S. Code Cong. & Ad. News 1327, 1333. *See* Heistand and Florsheim, The AEC Management Contract Concept, 29 Fed.B.J. 67 (1969); O.F. Brown, Energy Department Contractors and the Environment: A More "Special Relationship," 37 Fed.B.N.&J. 86 (1990).

<sup>81</sup>1956 *Hearings*, *supra* note 7, at 76-77; 1957 *Hearings*, *supra* note 4, at 34.

<sup>82</sup>1956 *Hearings*, *supra* note 7, at 76.

<sup>83</sup>*Id.*

<sup>84</sup>*Id.*

<sup>85</sup>1974 AEC Staff Study, *supra* note 7, at 31.

<sup>86</sup>Act of August 1, 1946, ch. 724, 60 Stat. 755. *See* Newman, The Atomic Energy Industry: An Experiment in Hybridization, 60 Yale L.J. 1263 (1951) (general background of operations under the 1946 Act).

<sup>87</sup>1956 *Hearings*, *supra* note 7, at 77.

The Atomic Energy Act of 1954<sup>88</sup> marked a significant change in the development of nuclear energy in the United States.<sup>89</sup> The 1954 Act ended the government monopoly over possession, use, and manufacturing of special nuclear material, *i.e.* the 1954 Act allowed direct participation by private industry in nuclear development for the first time. This included private use and possession of nuclear material and construction and operation of nuclear facilities, all subject to AEC licenses.

#### **D. Price-Anderson Act of 1957**

The 1954 Act was clearly designed to usher private industry into nuclear energy. Private entry, however, was slowed by the uncertainty over assignment of liability. Private industrial organizations were concerned about whether they would be required to bear all the risks associated with nuclear development.<sup>90</sup> This uncertainty was a significant obstacle to commercial nuclear development. Faced with the reality that private industry might withdraw from participation in the nuclear program completely as a result of unresolved liability issues as well as other factors, Congress in 1957 adopted the Price-Anderson Act as an amendment to the 1954 Act. Price-Anderson had two basic goals:<sup>91</sup> (i) to protect the public by guaranteeing funds to compensate for injury and damages sustained in a potentially catastrophic, yet unlikely, nuclear accident, and (ii) to set a ceiling on liability for private industry to foster growth and development of peaceful uses of atomic energy.

#### **E. Subsequent Price-Anderson Amendments and Extensions**

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<sup>88</sup>Act of August 30, 1954, Pub.L. No. 83-703, 68 Stat. 919.

<sup>89</sup>*See, e.g., 1984 Columbia Study, supra* note 4, at 1; *1974 AEC Staff Study, supra* note 7, at 1-2.

<sup>90</sup>*1956 Hearings, supra* note 7, at 5, 113, 276, 281, 286.

<sup>91</sup>H.Rep. No. 648, 94th Cong., 1st Sess. (1975) [hereinafter cited as *H.Rep. No. 648*]; S.Rep. No. - 454, 94th Cong., 1st Sess. (1975) [hereinafter cited as *S.Rep. No. 454*], *reprinted in* [1975] U.S. Code Cong. & Ad. News 2251-80; S.Rep. No. 1027, 93d Cong., 2d Sess. 1-3 (1974); S.Rep. No. 1605, 89th Cong., 2d Sess. 6 (1966) [hereinafter cited as *H.Rep. No. 1605*], *reprinted in* [1966] U.S. Code Cong. & Ad. News 3201, 3206; H.Rep. No. 2043, 89th Cong., 2d Sess. 6 (1966) [hereinafter cited as *H.Rep. No. 2043*]; *1957 Hearings, supra* note 4, at 7, 8, 169; Proposed Amendments to Price-Anderson Act Relating to Waiver of Defenses: Hearings Before the Joint Comm. on Atomic Energy, 89th Cong., 2d Sess. 3 (1966) [hereinafter cited as *1966 Hearings*]; 112 Cong.Rec. S22691 (daily ed. September 22, 1966) (statement by Sen. Pastore); *S.Rep. No. 296, supra* note 4, at 1, *reprinted in* [1957] U.S. Code Cong. & Ad. News 1803; *H.Rep. No. 435, supra* note 4, at 1; 103 Cong.Rec. H9551 (daily ed. July 1, 1957) (statement of Rep. Price).

Since its passage in 1957, the Price-Anderson Act has been amended on at least ten separate occasions. Most of these amendments have affected contractor as well as licensee coverage. Each has further expanded protection of the public. The first amendment occurred in 1958 when coverage was extended to the nuclear ship *Savannah*.<sup>92</sup> During the same session of Congress, a new subsection was added to exempt non-profit educational institution licensees from previously mandatory financial protection.<sup>93</sup> In 1961, the contractor provisions were amended to encompass underground testing of nuclear explosive devices.<sup>94</sup>

The Eighty-Eighth Congress further amended the Act to clarify licensee coverage to expressly indemnify facilities that had received construction licenses before the expiration of Price-Anderson.<sup>95</sup> In 1965, Price-Anderson was extended for ten years (until 1977), and the Act was amended to provide that the indemnity afforded under Subsections 170c and 170d shall be reduced by the amount that any financial protection required shall exceed \$60 million.<sup>96</sup>

#### **F. Foreign Coverage**

During the 1956-1957 hearings, several issues had been raised in regard to contractor indemnification outside the borders of the United States,<sup>97</sup> specifically as a result of contractors using nuclear devices and operating military reactors overseas. The scope and limitation of liability of a foreign nuclear accident, however, remained vague until Congress in 1962 amen-

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<sup>92</sup>Act of August 8, 1958, Pub.L. No. 85-602, 72 Stat. 525.

<sup>93</sup>Act of August 23, 1958, Pub.L. No. 85-744, 72 Stat. 837.

<sup>94</sup>Act of September 6, 1961, Pub.L. No. 87-206, 75 Stat. 475. This amendment added a provision for liability of contractors (to the extent of indemnification) free of the defense of sovereign immunity. Previously, a contractor might have argued it was immune from suit as an "instrumentality" of the Government.

<sup>95</sup>Act of August 1, 1964, Pub.L. No. 88-394, 78 Stat. 376.

<sup>96</sup>Act of September 29, 1965, Pub.L. No. 89-210, 79 Stat. 855. See S.Rep. No. 650, 89th Cong., 1st Sess. (1965) 1, 9, 15, *reprinted in* [1965] U.S. Code Cong. & Ad. News 3216-17; H.Rep. No. 883, 89th Cong., 1st Sess. (1965) 1, 9, 15. This amendment has had no effect on contractor indemnity because contractors have not been required by the AEC or DOE to purchase any underlying insurance. See 1983 DOE Report, *supra* note 6, at 5; and, 1974 AEC Staff Study, *supra* note 7, at 33.

<sup>97</sup>1957 Hearings, *supra* note 4, at 151-52, 181-82, 192-93, 197, 287.



ded Price-Anderson to allow foreign coverage under AEC's Section 170d indemnity authority.<sup>98</sup> The 1962 amendment extended coverage (up to \$100 million) to apply to nuclear incidents involving "a facility or device owned by and used by or under contract with, the United States."<sup>99</sup> Prior to that time, AEC had used its general authority to indemnify some of its contractors for foreign incidents.<sup>100</sup> In 1975, Congress again clarified foreign coverage. Contractors were covered by any occurrence involving "source, special nuclear, or by product material owned by, and used by or under contract with the United States." Foreign coverage was not an issue during the last Price-Anderson Act extension, but has been raised more recently in the context of U.S. Government-funded nuclear safety and nonproliferation work in the former Soviet bloc.<sup>101</sup>

#### **G. Department of Defense Contractor Coverage**

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<sup>98</sup>Act of August 29, 1962, Pub.L. No. 87-615, 76 Stat. 409. The Price-Anderson System provides up to \$100 million of protection for some "nuclear incidents" outside the United States. 42 U.S.C. §2210d(5). However, the statutory definition of "nuclear incident" limits coverage outside the United States to situations where the nuclear material is "owned by, and used by or under contract with, the United States...." See 42 U.S.C. §2014q. Foreign coverage, when compared to domestic coverage, varies in several respects under Section 170d: The class of persons eligible for indemnity coverage is smaller. Coverage extends only to the prime contractor with the indemnity agreement, subcontractor, suppliers of any tier, and others whose liability arises by reasons of activities connected with such contracts or subcontracts (rather than "anyone liable"). Further, the wide latitude given when defining the person indemnified does not apply to foreign coverage. This coverage is also subject to a ceiling on aggregate liability of \$100 million per incident. Finally, the §170n waiver of defenses ("extraordinary nuclear occurrence" provision) does not apply. See *McNett*, *supra* note 6, at 55-56.

<sup>99</sup>S.Rep. No. 1677, 87th Cong., 2d Sess. (1962) [hereinafter cited as *S.Rep. No. 1677*], reprinted in [1962] U.S. Code Cong. & Ad. News 2207-22.

<sup>100</sup>1961 *Hearings*, *supra* note 7, at 16-18. See 1974 *AEC Staff Study*, *supra* note 7, at 36-37.

<sup>101</sup>S.Rep. No. 454, *supra* note 19, reprinted in [1975] U.S. Code Cong. & Ad. News 2251-80; 42 U.S.C. §2014g. Generally because of the "owned by... the United States" requirement, Price-Anderson does not protect contractors funded by DOE to do nuclear safety work on Soviet-designed reactors over the last few years. DOE recently has provided a few contractors indemnification under Public Law 85-804 (discussed, *infra* notes 32 and 39 and accompanying text) for limited nuclear nonproliferation work in the former Soviet Union, but has declined to provide such coverage for work on former Soviet bloc nuclear power reactors. The latter has led a number of contractors to decline to do such work.

Price-Anderson coverage of contractors was intended to apply to situations where government and private industry assumed varying degrees of commitment towards one another.<sup>102</sup> Thus, Price-Anderson was intended to cover: privately financed work subject to 1954 Act licenses, contract work financed exclusively by AEC (now DOE), contract work partially financed by AEC (now DOE), and work for another agency of government required to obtain a license under the 1954 Act. In this regard, there existed some controversy as to whether Price-Anderson also should be extended to contracts entered into by the U.S. Department of Defense (DOD).<sup>103</sup> Nevertheless, the JCAE in 1957, recommended that it was not "appropriate" at the time to include protection for the prime contractors of DOD. The JCAE felt the DOD situation differed from the others, and should be resolved only after further and full investigation of the scope of DOD's operations.<sup>104</sup> All other agencies of the Government as licensees of NRC can have their operations covered by the Act.

#### H. "Extraordinary Nuclear Occurrence" Feature

Congress amended Price-Anderson in 1966 to require those who were indemnified, including contractors, to waive certain legal defenses to actions in the event of an "extraordinary nuclear occurrence" (ENO).<sup>105</sup> The waiver was designed to maximize protec

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<sup>102</sup>1957 *Hearings*, *supra* note 4, at 149-50.

<sup>103</sup>*S.Rep. 296*, *supra* note 4, at 22, *reprinted in* [1957] U.S. Code Cong. & Ad. News 1803, 1823; *H.Rep. No. 435*, *supra* note 4, at 22; *S.Rep. No. 2298*, 84th Cong., 2d Sess. 12 (1956); 1956 *Hearings*, *supra* note 7, at 379-80; 1957 *Hearings*, *supra* note 4, at 22, 186, 286; 1966 *Hearings*, *supra* note 19, at 86.

<sup>104</sup>*S.Rep. No. 296*, *supra* note 4, at 19,22, *reprinted in* [1957] U.S. Code Cong. & Ad. News 1803, 1823; *H.Rep. No. 435*, *supra* note 4, at 19, 22. *See 1974 AEC Staff Study*, *supra* note 7, at 34. In 1958, Congress did pass a separate statute (generally known as Public Law 85-804) that enables agencies, such as DOD and DOE, which exercise "functions in connection with national defense" to enter into indemnity agreements for damages arising from contractors' handling of unusually hazardous or nuclear risks. *See Act of Aug. 28, 1958*, Pub.L. No. 85-804, 72 Stat. 972, 50 U.S.C. §§1431-1435. Like the Price-Anderson Act, 42 U.S.C. §2210j, Public Law 85-804 is an exception to the Anti-Deficiency Act, which otherwise prohibits Federal agencies from making obligations in advance of appropriations. 31 U.S.C. §§1341 *et seq.*

<sup>105</sup>Act of October 13, 1966, Pub.L. No. 89-645, 80 Stat. 891. *See generally 1966 Hearings*, *supra* note 19; *S.Rep. No. 1605*, *supra* note 19, *reprinted in* [1966] U.S. Code Cong. & Ad. News 3201-06; *H.Rep. No. 2042*, *supra* note 19; 1974 *JCAE Selected Materials*, *supra* note 7, at 299-332. The ENO provision now is mainly in §170n(1). Determination as to whether an incident was an ENO

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tion of the public by eliminating legal barriers to claims that varied among the States, but remains an often misunderstood feature of the Price-Anderson Act. At the time of the ENO amendment, it was felt that, if recovery of Price-Anderson funds were left entirely to the provisions and principles of State tort law in the event of a major nuclear accident, many valid claims might be tied up in the courts for years. Particular problems that were anticipated were varying statutes of limitations and the possibility that some States might not apply "strict liability" to a serious nuclear accident. On the other hand, there was considerable resistance to the total displacement of State law by creation of a "Federal tort" for nuclear accidents. The result of this balance of competing factors was the "waiver" system in which entities covered by Price-Anderson are required to waive certain State law defenses (*i.e.*, contributory negligence, assumption of risk, charitable or governmental immunity, unforeseeable intervening causes, and "short" statutes of limitations). As a result of the defenses that would be waived in the event of an ENO, a person suffering nuclear injury would need show only a causal connection between his or her injury or damage. In other words, when there is an ENO, there essentially is a "no-fault" recovery system.

## **I. 1975 Extension**

Congress, in 1975, extended Price-Anderson for another ten years.<sup>106</sup> Also, a system was added to implement retrospective premiums that would be assessed, subsequent to a nuclear incident causing damages in excess of the available amount of private insurance, against each nuclear power plant licensed to operate. This was intended to increase the aggregate liability

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is made by the NRC or DOE on the basis of predetermined criteria. 10 C.F.R. Parts 140 (NRC) and 840 (DOE). It is not necessary that an ENO determination be made for coverage under the Price-Anderson system to apply. The only case in which an ENO determination previously has been made was the 1979 Three Mile Island (TMI) accident. NRC determined that, while that event was "extraordinary" in ordinary parlance, it was not an ENO. 45 Fed.Reg. 27590 (1980). Price-Anderson, nonetheless, was applied in the TMI case (*e.g.*, resulting in one law firm representing all the defendants).

<sup>106</sup>Act of December 31, 1975, Pub.L. No. 94-197, 89 Stat. 1111. *See H.Rep. No. 648, supra* note 19, at 8-16, *reprinted in* [1975] U.S. Code Cong. & Ad. News 2257-66. A similar bill (H.R. 153-23) had passed the Congress in 1974, but was vetoed by the President on October 12, 1974. The President cited his approval of the substantive portions of the bill, but based his veto on the "clear constitutional infirmity" of the bill's provision that allowed Congress to prevent it from becoming effective by passing a concurrent resolution within a specified time. *Id.* at 3, 33, *reprinted in* [1975] U.S. Code Cong. & Ad. News 2252-53, 2276.

limit (and phase-out Government indemnity) for nuclear power plants, but the limit for DOE contractors was left at \$500 million. Indemnity coverage outside the United States was extended, and the ENO waiver of short statutes of limitations was lengthened from ten to twenty years. Furthermore, mechanisms were established to afford certain claims (under Section 170c or 170d) priority over others. The cost of investigating and settling these claims incurred by the Government was excluded from the liability limit under Section 170d.<sup>107</sup>

#### **J. Abolition of AEC and JCAE**

The Energy Reorganization Act of 1974<sup>108</sup> abolished the AEC and the JCAE. Price-Anderson responsibility was allocated between two separate agencies - the NRC and the Energy Research and Development Administration (ERDA), and several committees of the Congress. ERDA was subsequently eliminated under the Energy Reorganization Act of 1977.<sup>109</sup> All ERDA authority was transferred to the DOE. NRC now administers Price-Anderson coverage for its licensees, while DOE administers coverage for its contractors.

#### **K. Last Price-Anderson Extension in 1988**

Congress, in 1983, began considering whether to extend the Price-Anderson Act for the third time shortly after DOE and NRC submitted reports required by the 1975 amendments. A number of hearings were held by five separate Committees between 1984 and 1987. Each of the five Committees reported bills before the 1986 Labor Day recess, but the 99th Congress adjourned before a bill could reach the floor of either house. Following re-introduction of bills early in the 100th Congress, the House passed an extension bill at the end of July 1987 (just before DOE's authority to enter into new nuclear hazards indemnity agreements expired on August 1, 1987). It, however, was not until March 1988 that a Price-Anderson bill reached the Senate floor. On August 20, 1988, the President signed the Price-Anderson Amendments Act of

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<sup>107</sup> Amendment of the "costs" provisions of the Act was proposed by Senator Hathaway during Senate consideration of the bill. 121 Cong.Rec. S22336 (daily ed. Dec. 16, 1975). The amendment is somewhat obscure, and led to questions about whether it was intended to apply to coverage for both licensees under Section 170c and contractors under Section 170d. *See* NRC, The Price-Anderson Act - The Third Decade - Report to Congress, NUREG-0957 (December 1983) at I-5 [hereinafter cited as *1983 NRC Report*].

<sup>108</sup> Act of October 11, 1974, Pub.L. No. 93-438, 88 Stat. 1233, 42 U.S.C. §§5801-5891.

<sup>109</sup> Act of August 4, 1977, Pub.L. No. 95-91, 91 Stat. 565, 42 U.S.C. §7151.

1988, extending the system for another fifteen years (to August 1, 2002).<sup>110</sup> The liability limit was increased substantially; and (as described, *infra* notes 84-148 and accompanying text) there were a number of significant changes to the DOE contractor provisions.

#### **L. Lapse Between 1987 and 1988**

A lapse in Price-Anderson authority for new or extended nuclear hazards liability coverage lasted for just over a year from August 1, 1987 to August 20, 1988. Meanwhile, on September 18, 1987, DOE and the University of California signed new contracts for the operation of Los Alamos, Lawrence Livermore and Lawrence Berkeley National Laboratories. Because these contracts were due to expire on September 30, 1987, DOE and the University were faced with the unfortunate choice of signing without Price-Anderson coverage or closing the three laboratories. The new contracts contained Public Law 85-804 indemnity coverage.<sup>111</sup> The signing of these contracts eliminated a significant deadline for Congressional action, and resulted in some Congressional staff members pointing out that one significant DOE contractor was willing to work without the more comprehensive Price-Anderson coverage. Before their expiration on December 31, 1987, EG&G, Inc. (for the Nevada Test Site) and Associated Universities, Inc. (for Brookhaven National Laboratory) also renewed contracts without Price-Anderson coverage. At least one major DOE contractor refused to do nuclear work for DOE with only Public Law 85-804 indemnification.<sup>112</sup>

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<sup>110</sup>Act of August 20, 1988, Pub. L. No. 100-408; 102 Stat. 1066. For an overview of the 1988 Act, see D.M. Berkovitz, "Price-Anderson Act: Model Compensation Legislation? - The Sixty-Four Million Dollar Question," 13 *Harvard Environmental Law Review* 1, 16-41 (1989) [hereinafter cited as *Berkovitz*].

<sup>111</sup>As discussed, *supra* notes 32 and 39 and accompanying text, Public Law 85-804 authorizes certain agencies to provide indemnification for unusually hazardous or nuclear risks associated with national defense activities. The Senate Energy Committee and House Energy Committee in 1987 pointed out it does not provide the same public protection features of the Price-Anderson Act. *1987 Senate Energy Committee Report, supra* note 3, at 17, reprinted in [1988] U.S. Code Cong. & Ad. News 1429; *1987 House Energy Committee Report, supra* note 3, at 17. Under Public Law 85-804, victims could sue for damages under State tort law, but contractors would not have to waive their defenses. Victims also would not be able to benefit from the other important features of the Price-Anderson Act, such as emergency assistance payments, consolidation and prioritization of claims, a minimum statute of limitations, or the "omnibus" feature that includes subcontractors and suppliers. *Id.*

<sup>112</sup>On October 22, 1987, General Electric Company informed DOE it would not accept a contract for the Dynamic Isotope Power Systems project relying solely on Public Law 85-804 for nuclear indemnification coverage. Chairman Johnston later referred to this fact during the Senate floor debate on

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### **M. 1988 DOE Civil and Criminal Penalty Provisions**

New DOE civil and enhanced criminal penalty provisions were added to the 1988 Price-Anderson extension legislation by the Senate essentially as a compromise substitute for subrogation rights<sup>113</sup> against DOE contractors.<sup>114</sup> Addition of a subrogation provision to Price-Anderson had begun being advocated in mid-1985. This came at a time when DOE and its contractors were beginning to be severely criticized for a number of environmental and safety problems at the Department's aging nuclear installations.

### **III. Original Congressional Rationale for Contractor Indemnification**

#### **A. 1956**

The legislative history reveals that indemnification for the AEC's own contractors was not a major concern in the early drafts of what became the Price-Anderson Act. It was simply

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Price-Anderson on March 16, 1988. *See* 134 Cong.Rec. S2302 (daily ed. Mar. 16, 1988).

<sup>113</sup>An entity having a right of subrogation can recover monies in relation to a claim or debt paid on behalf of another. The subrogation provisions proposed during the last extension of the Price-Anderson Act expressly would have allowed DOE to recover from its own indemnified contractors and subcontractors monies paid to injured third parties, in effect making the contractors and subcontractors self-insureds. Insurance policies, for example, often allow a policyholder's primary insurer to recover from a third party's insurer (but not its own insured) monies paid on behalf of its insured.

<sup>114</sup>DOE implementation of the civil and criminal penalty provisions of the 1988 Amendments has been continuing. Procedural rules and an enforcement policy (10 C.F.R. Part 820) were published in 1993. 58 Fed.Reg. 43680 (Aug. 17, 1993). A number of substantive "nuclear-safety related" rules for DOE to enforce under the 1988 Amendments have been promulgated in final form in the last few years. They are: DOE's final workplace substance abuse rule for contractor employees (10 C.F.R. Part 707), which became effective August 21, 1992, 57 Fed.Reg. 32652 (Jul. 22, 1992); DOE's final "whistleblower" rules (10 C.F.R. Part 708), which became effective on April 2, 1992, 57 Fed.Reg. 7533 (Mar. 3, 1992); DOE's final occupational radiation protection standards (10 C.F.R. Part 835), which became effective on January 13, 1994, 58 Fed.Reg. 65458 (Dec. 14, 1993); and, the quality assurance portions of 10 C.F.R. Part 830, which required contractors to submit to DOE a current quality assurance program and an implementation plan within 180 days after May 5, 1994. 59 Fed.Reg. 15843, 15852 (Apr. 5, 1994) (codified at 10 C.F.R. §830.120(b)(2)).

assumed.<sup>115</sup> Many believed the AEC authority to cover contractors to be adequate and that legislation was not necessary. After indemnification in general began to be examined, Congress soon appreciated the need to expressly include AEC contractors under the proposed legislation.

The early drafts of the Price-Anderson legislation, specifically the House bills (H.R. 9701,<sup>116</sup> H.R. 9802,<sup>117</sup> and H.R. 11242<sup>118</sup>), did not provide for AEC contractor indemnification. H.R. 9701, which was introduced by Representative Price on March 1, 1956, was intended to authorize the AEC, upon request, to indemnify each owner, operator, manufacturer, designer, and builder of a licensed facility against uninsured liability to members of the public for bodily injury, death and property damage arising from nuclear hazards. The bill also allowed for indemnification of each supplier of equipment, material or services for such facilities, "as interests appear", but placed no ceiling on liability.

Representative Cole, on March 7, 1956, introduced H.R. 9802 as an alternative to H.R. 9701. H.R. 9802 provided that a licensee would not be liable in damages for an aggregate amount more than twice the original capital cost of the facility. This limitation would have extended to and included all contractors and subcontractors of the licensee. On May 16, 1956, Representative Cole, upon his introduction of H.R. 11242, abandoned the liability formula of H.R. 9802 in favor of a broad provision authorizing the AEC to indemnify licensees. H.R. 11242, which was drafted by the AEC, also did not provide for statutory indemnification of the Commission's contractors. Coverage referred only to licensees, apparently because the AEC presupposed that the indemnity authority, which initially had been used by the MED, would be sufficient to protect its own contractors against any financial risks.<sup>119</sup>

Hearings before the JCAE occurred on May 15, 16, 17, 18, 21, and June 14, 1956. The majority of the testimony related to the mechanics of the proposed insurance and indemnification of licensees. Nevertheless, several witnesses addressed the issue of contractor coverage, indicating that the bills should be altered to cover AEC contractors as well as licensees. This followed informative testimony relating to previous coverage of contractors by William Mitchell,

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<sup>115</sup>*McNett, supra* note 6, at 43-44.

<sup>116</sup>84th Cong., 2d Sess. (1956).

<sup>117</sup>84th Cong., 2d Sess. (1956).

<sup>118</sup>84th Cong., 2d Sess. (1956). *See also 1956 Hearings, supra* note 7, at 43-46 (reprinting the bill and explanatory material).

<sup>119</sup>*See 1956 Hearings, supra* note 7, at 285-86.

General Counsel of the AEC, on the first day of the hearings.<sup>120</sup> Mr. Mitchell noted that contractor indemnification began under the MED as a result of the fact that various contractors sought protection against extraordinary hazards associated with the production and use of nuclear materials, and described the scope of indemnities given to contractors up to that time.

Following Mr. Mitchell's testimony, several witnesses expressed the view that contractor coverage should be written into the proposed legislation. The first witness to do so was Charles H. Weaver, Vice President of Westinghouse Electric Corp., who testified on May 16th, the second day of the hearings.<sup>121</sup> Mr. Weaver specifically noted that the indemnities Westinghouse then had in its contracts involving naval nuclear activities were subject to the availability of funds, would not extend to liabilities arising after performance, and did not apply to Westinghouse's suppliers.<sup>122</sup> In acknowledging Mr. Weaver's concerns, JCAE Chairman Anderson said the Committee staff was at work on something to add to the bill to solve this problem.<sup>123</sup>

Later the same day, Ambrose Kelly, then General Counsel of the Associated Factory Mutual Fire Insurance Cos., said government indemnity should be applicable equally to both Government and private atomic installations ("with privately owned installations obliged to provide liability insurance in an amount established by the AEC as adequate for all normal losses within the capacity available from private sources").<sup>124</sup> He said he had learned in the hearings that the public was "inadequately protected" against the possibility of loss at an AEC installation, especially in light of Mr. Mitchell's earlier testimony that the Government itself would be liable,

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<sup>120</sup>*Id.*, at 76-94.

<sup>121</sup>*Id.*, at 113-116.

<sup>122</sup>Similar concerns about coverage for suppliers and subcontractors under prior AEC indemnity agreements were expressed in a letter dated May 11, 1956 to the JCAE from W.E. Kingston, General Manager, Atomic Energy Division, Sylvania Electric Products, Inc. *Id.*, at 285-86. He also noted the form and coverage of the indemnification Sylvania had received varied according to the cognizant AEC Operations Office.

<sup>123</sup>*Id.*, at 124.

<sup>124</sup>*Id.*, at 173.



if at all, only under the Federal Tort Claims Act (FTCA),<sup>125</sup> which contains a number of defenses (such as discretionary function).

The next day, May 17th, Francis H. McCune, Vice President of General Electric Company, also indicated that he would like to see the legislation include Government facilities, whereupon Chairman Anderson indicated again that a new draft bill the Committee staff was working on did contain such coverage.<sup>126</sup> Such a bill was introduced by Senator Anderson on May 25th.<sup>127</sup>

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<sup>125</sup>28 U.S.C. §§2671 *et seq.* See *Dalehite v. United States*, 346 U.S. 15 (1953) (describing the legislative history of the FTCA, and the Federal Government's lack of liability for the Texas City disaster thereunder). See also *1987 Senate Energy Committee Report*, *supra* note 3, at 17-18, reprinted in [1988] U.S. Code Cong. & Ad. News 1429-1430 (describing the legal obstacles to recovery of damages under the FTCA). In 1987, the U.S. Department of Justice objected to a provision that would have treated the Secretary of Energy as a government contractor for purposes of determining the Federal Government's potential tort liability for certain activities relating to storage or disposal of radioactive waste. *Id.* at 59-64; *1987 House Energy Committee Report*, *supra* note 3, at 33-36.

<sup>126</sup>*1956 Hearings*, *supra* note 7, at 199.

<sup>127</sup>S. 3929, 84th Cong., 2d Sess. (1956). A companion identical bill, H.R. 11523, was introduced in the House by Rep. Price on May 29, 1956. Section 3 of these bills contained a proposed §170d, which read as follows:

In addition to any other authority the Commission may have, the Commission is authorized until August 1, 1966, to enter into agreements of indemnification with its contractors for the construction or operation of production or utilization facilities for the benefit of the United States, in which the Commission may require its contractor to provide financial protection of such a type and in such amounts as the Commission shall determine to be reasonably adequate to cover public liability claims arising out of or resulting from the radioactive, toxic, explosive, or other hazardous properties of source, special nuclear, or byproduct materials used in or resulting from the construction or operation of the facility

because of activities of the indemnitee during the period of the contract and to indemnify the contractor against such claims for such sums above the amount of the financial protection required, but not in excess of \$500,000,000. Such agreements shall be for activities performed within the terms of the contract and shall include the liability of subcontractors and suppliers and be applicable to lump sum as well as cost type contracts and to contracts financed in whole or in part by the Commission.

S. 3929, departed from the earlier bills by expressly providing for contractor indemnity. Senator Anderson, upon presentation of the proposal, stated that, pursuant to section 170d, the:

**AEC is authorized to enter into the same [licensee] type of indemnity agreement with its prime contractors and subcontractors, including lump sum as well as cost type contracts, and including arrangements where AEC finances only part of the project. This authority is in addition to AEC's existing authority to enter into indemnity agreements. Normally AEC has made its contractual indemnities subject to the availability of funds. It has used the indemnity sparingly in subcontracts and in jointly financed projects with other federal agencies or private organizations. This bill would authorize AEC to treat its contractors and licensees on a more consistent basis.**<sup>128</sup>

When the hearings were resumed on June 14, 1956, a provision for AEC contractors thus was in the legislation before the JCAE.<sup>129</sup> Mr. Mitchell of the AEC testified that day that the Commission believed that the inclusion of AEC contractors in the new version of the legislation was a "desirable feature".<sup>130</sup> A revision of S. 3929, S. 4112,<sup>131</sup> was introduced by Senator

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<sup>128</sup>102 Cong.Rec. S8095 (daily ed. May 25, 1956) (statement by Sen. Anderson); Statement of Senator Clinton P. Anderson on Introduction of Indemnity Bill S.3929 in the Senate, JCAE Press Release No. 56 (May 25, 1956)(same).

<sup>129</sup>1956 *Hearings*, *supra* note 7, at 313-314.

<sup>130</sup>*Id.*, at 320. *See id.*, at 330, 336-7 and 342 (containing changes in §170d of S. 3929 proposed by Oscar M. Ruebhausen of the New York City Bar Association); 336-37 (containing changes in §170d of S. 3929 proposed by Stoddard Stevens of Sullivan & Cromwell); 379-80 (containing changes in §170d of S. 3929 proposed by Mr. Weaver of Westinghouse); and 382-83 (containing changes in §170d proposed by Mr. McCune of General Electric). *See also id.*, at 351 (containing a statement of H.W. Yount, Vice President, American Mutual Alliance in support of placing AEC contractor and licensee coverage on a common basis); and 407 (containing an AEC statement of June 21, 1956 that persons having an interest in this legislation should understand that §170d of S. 3929 would "give the Commission additional authority to that which is now available to the Commission to enter into agreements of indemnification with its contractors").

<sup>131</sup>84th Cong., 2d Sess. (1956). An identical bill, H.R. 12050, 84th Cong., 2d Sess. (1956), was introduced in the House by Rep. Price on June 29, 1956. These bills added authority to cover "research and development plants" to §170d.

Anderson on June 22, 1956. On June 25, 1956,<sup>132</sup> the JCAE favorably reported out S. 4112 and H.R. 12050.<sup>133</sup> They were not debated on the floor of either House in 1956, and no legislation was passed before the Eighty-Fourth Congress adjourned.

## **B. 1957**

On January 3, 1957, Representative Price reintroduced the earlier indemnity legislation. This legislation, H.R. 888,<sup>134</sup> contained the same provision as H.R. 12050, which had died in the previous Congress. Specifically, Section 170d authorized the AEC to indemnify its contractors. H.R. 888 was redrafted and introduced again as H.R. 1981,<sup>135</sup> which again was revised and reintroduced by Representative Baring on January 28, 1957 as H.R. 3798.<sup>136</sup> Senator Anderson introduced S. 52<sup>137</sup> on January 7, 1957. S. 52 was essentially the same as S. 4112 of the Eighty-Fourth Congress. S. 52 also was redrafted, resulting in S. 715.<sup>138</sup> Again, Section 170d remained unchanged.

On March 25, 26 and 27, 1957, hearings were held before the JCAE. They were to focus upon H.R. 1981 and S. 715.<sup>139</sup> Since hearings had been held in 1956, the JCAE limited the scope of the 1957 hearings to matters that previously were either inadequately covered or not covered at all. In the 1957 hearings, consideration was given to the terms of the proposed authority for the AEC to indemnify its own contractors, rather than to whether the legislation should contain such a provision at all. The AEC, early in the hearings, proposed a redrafted version of S. 715 and H.R. 1981. The recommended changes were to confine indemnification of AEC contractors to nuclear incidents arising from construction or operation of production and utilization facilities

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<sup>132</sup>JCAE, Press Release No. 60 (June 25, 1956).

<sup>133</sup>See S.Rep. No. 2298, 84th Cong., 2d Sess. (1956) at 12; H.Rep. No. 2531, 84th Cong., 2d Sess. (1956) at 12. Note that, in these reports, the JCAE also indicated that it did not believe that §170d authority should be extended to prime contractors of DOD.

<sup>134</sup>85th Cong., 1st Sess. (1957).

<sup>135</sup>85th Cong., 1st Sess. (1957).

<sup>136</sup>85th Cong., 1st Sess. (1957).

<sup>137</sup>85th Cong., 1st Sess. (1957).

<sup>138</sup>85th Cong., 1st Sess. (1957). S. 715 was introduced on January 17, 1957.

<sup>139</sup>1957 *Hearings*, *supra* note 4, at 3-6.

and other activities involving "seriously hazardous quantities" of special nuclear materials "in order to be consistent with the licensed activities indemnified".<sup>140</sup>

Other witnesses also discussed various provisions of Section 170d. For example, Mr. McCune of General Electric said he believed that the indemnity authority in the contract program should be "coextensive" with that in the licensing program.<sup>141</sup> He added that an amendment along the lines of that suggested by the New York City Bar Association, which would give protection to the public and industry in all cases where there was "a risk of a substantial nuclear incident", would seem "desirable".<sup>142</sup> Appearing on behalf of the New York City Bar Association, Arthur W. Murphy said he thought the legislation should contain a direction to the Commission to indemnify Government contractors in any case in which financial responsibility would be required if the activity involved were licensed.<sup>143</sup> He further said he thought that indemnity should be available for any activity carried on by contractors which were not of a type that might be carried on by a licensee, if the Commission thought there was a danger of a "substantial" accident. He added the AEC contractor provision should be mandatory, rather than permissive.<sup>144</sup>

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<sup>140</sup>*Id.* at 16, 20. The AEC also believed that §170d should be clarified to indemnify contractors and their suppliers above the amounts of financial protection required, and others who may be liable without regard to financial protection. S. 715 then provided only for indemnification of contractors above the amount of financial protection required. *Id.*

<sup>141</sup>*1957 Hearings, supra* note 4, at 158. *See also id.*, at 149-51.

<sup>142</sup>*See also id.* at 185 (statement of Victor A. Hahn, on behalf of National Association of Manufacturers).

<sup>143</sup>*Id.*, at 162-63.

<sup>144</sup>*Id.* at 176. A similar statement was made by Dr. Lee L. Davenport, President, Sylvania-Corning Nuclear Corp. *Id.* at 250.

On May 2, 1957, the JCAE reported out H.R. 1981 and S. 715, with amendments.<sup>145</sup> These were reintroduced as H.R. 7383 and S. 2051, respectively, on May 9, 1957. On July 1, 1957, consideration of H.R. 7383 began on the House floor. There was little discussion relating directly to coverage for AEC contractors; however, Representative Price offered a JCAE amendment to make Section 170d apply to, *inter alia*, "activities under risk of public liability for a substantial nuclear incident".<sup>146</sup> He said the amendment redefined the area in which the bill would be applied by the Commission in its own contract operations "so as to be as closely similar to those areas covered by licensed operations as is possible".<sup>147</sup> H.R. 7383, as amended, was passed by the House on July 1, 1957 and by the Senate (without any specific consideration of coverage for AEC contractors) on August 16, 1957. The Price-Anderson Act was signed by President Eisenhower on September 2, 1957.

#### IV. Congressional Activities Between 1975 and 1984

##### A. 1979-1980 House Activities

On July 9, 1979, the Subcommittee on Energy and the Environment of the House Interior and Insular Affairs Committee held an oversight hearing on the Price-Anderson Act. The hearing closely followed the March 1979 accident at the Three Mile Island nuclear power plant, and con-

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<sup>145</sup>JCAE, Press Release No. 81 (May 2, 1957). See *H.Rep. No. 435*, *supra* note 4, at 21-22; and, *S.Rep. No. 296*, *supra* note 4, at 21-22, reprinted in [1957] U.S. Code Cong. & Ad. News 1823. As reported out that May, the bills authorized contractor indemnity coverage under §170d for "...the construction or operation of production or utilization facilities or other activities involving possession of sufficient quantities of special nuclear, source or byproduct materials to constitute a hazard involving potential widespread injury to persons or property other than those employed or used at the site of the contract activity, for the benefit of the United States." The JCAE also decided to observe the operations of the AEC "for a year" before considering any further steps to make the §170d authority mandatory, and that it still was not appropriate to include protection for prime contractors of the Defense Department alone in this legislation. *Id.* As discussed, *infra* notes 100-102 and accompanying text, the 1988 Amendments finally made coverage for DOE contractors mandatory. Pub.L. No. 100-408, §4(a)(d)(1)(A); 102 Stat. 1068.

<sup>146</sup>103 Cong.Rec. H9562 (daily ed. July 1, 1957). A revised version of H.R. 7383, Calendar No. 579, containing this new language was introduced the next day.

<sup>147</sup>*Id.* He added that the original language of §170d in covering only those activities involving possession of hazardous amounts of special nuclear materials did not cover such activities as the design or construction of a reactor which precede the insertion of special nuclear materials into the pile as fuel. *Id.*

centrated on H.R. 789<sup>148</sup> and coverage for commercial licensees. H.R. 789, which was introduced by Representative Weiss on January 15, 1979, *inter alia*, would have eliminated the limitation on liability provision and the then \$500 million ceiling on DOE's Section 170d indemnity authority. Chairman Hendrie of the NRC testified he did not see a need to change the Price-Anderson Act at that time. DOE did not testify at this hearing. No further action was taken by this Subcommittee in 1979.

The next year, its Chairman, Representative Udall introduced another bill, H.R. 8179,<sup>149</sup> on September 22, 1980. H.R. 8179 would have increased the retrospective premium applicable to power plant licensees, and increased the ceiling of government indemnity for both NRC licensees and DOE contractors to \$5 billion. Markup on H.R. 8179 was initiated, but there was no further Congressional action.

## **B. 1981 GAO Report**

In 1981, the House Committee on Science and Technology asked the General Accounting Office (GAO) to examine the Price-Anderson Act as it governs nuclear liability of DOE contractors. The GAO issued its report on September 14, 1981,<sup>150</sup> and the Subcommittee on Energy Research and Production held a hearing the next day focusing on the Act's impact on nuclear research and development at the Department's facilities.<sup>151</sup> Also, Representative Weiss testified on H.R. 3915<sup>152</sup>, a bill he introduced on June 11, 1981 to eliminate the limitation on liability for both NRC licensees and DOE contractors.

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<sup>148</sup>96th Cong., 1st Sess. (1979). H.R. 421, 98th Cong., 1st Sess. (1983), which was introduced by Representative Weiss on January 3, 1983 and was very similar to the bills he introduced in 1979 and 1981.

<sup>149</sup>96th Cong., 2d Sess. (1980).

<sup>150</sup>GAO, Congress Should Increase Financial Protection to the Public from Accidents at DOE Nuclear Operations, EMD-81-111 (September 14, 1981). In June 1987, GAO issued another report recommending extension of DOE's Price-Anderson indemnity authority. GAO, Nuclear Regulation - A Perspective on Liability Protection for a Nuclear Plant Accident, GAO/RCED-87-124 (June 1987) at 5-6, 28-30 [hereinafter cited as *1987 GAO Report*].

<sup>151</sup>Price-Anderson Act: Hearing Before the House Subcomm. on Energy Research and Production, Committee on Science and Technology, 97th Cong., 1st Sess., No. 47 (September 15, 1981) [hereinafter cited as *1981 House Science Hearing*].

<sup>152</sup>97th Cong., 1st Sess. (1981).

GAO said in its 1981 report that it believed the protection provided DOE contractors by the Price-Anderson Act was needed, "especially since alternative methods for insuring the public against the potential hazards of a catastrophic nuclear accident do not provide as much protection as does the Price-Anderson Act". At the same time, GAO said that public protection under the Act should be increased for DOE contractor operations and that certain provisions should be changed and/or clarified to "provide better public protection" from catastrophic nuclear accidents. GAO recommended that the Act be amended to increase protection for DOE contractor activities and make it equal to that for licensed commercial activities, and to cover precautionary evacuations. At the House hearing, Deputy Secretary of Energy Davis testified that DOE then believed that the \$500 million limit for its contractors was reasonable and that the Department recommended no change at that time. In saying this, DOE cited the provisions of the Act and the prior legislative history that indicate that the limitation on liability "serves primarily as a device for facilitating further congressional review of such a situation as an incident rather than an ultimate bar to further relief of the public".<sup>153</sup>

#### **C. 1983 DOE and NRC Reports to Congress**

In 1975, when Congress extended the Price-Anderson Act to 1987, it added a new Section 170p that directed the "Commission" to submit to the Congress by August 1, 1983, a detailed report concerning the need for continuation or modification of the Act beyond 1987. Both DOE and NRC<sup>154</sup> submitted such reports. DOE stated in its Report to Congress that the Price-Anderson indemnity system should be continued "to ensure furtherance of DOE's statutory missions in research and development, production, defense and other nuclear fields, and protection of the public". DOE also stated the contractor indemnity system should remain unchanged, except for the following modifications: (i) the DOE contractual indemnification limit should be made "equivalent" to that provided for NRC licensed facilities, and (ii) the "extraordinary nuclear occurrence" feature should be extended to include incidents at nuclear waste management facilities.

#### **D. 1984 House Hearing**

On June 11, 1984, the House Subcommittee on Energy and the Environment held another hearing on the Price-Anderson Act. There was discussion of the DOE and NRC reports, and

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<sup>153</sup>See 1981 House Science Hearing, *supra* note 79, at 17, 23, 25, 77.

<sup>154</sup>1983 DOE Report, *supra* note 6, and 1983 NRC Report, *supra* note 35. The NRC Report specifically noted that it did not include any discussion of issues relating to DOE contractor activities indemnified under §170d.

H.R. 421 and H.R. 3277<sup>155</sup>, which was introduced by Representative Sieberling on June 9, 1983. H.R. 3277 would have removed the limitation on liability and imposed strict liability regardless of the severity of an incident, i.e., the "extraordinary nuclear occurrence" feature would have applied to all nuclear incidents.

## **V. Price-Anderson Amendments Act of 1988**

### **A. Overview; Review By Five Congressional Committees and GAO**

Congress began considering whether to again extend the Price-Anderson Act in 1983 shortly after the NRC and DOE submitted the reports required by the 1975 extension (when only the JCAE had reviewed the legislation). This time, Congressional action was much more protracted and controversial, and concentrated more attention on DOE contractor coverage. Three House and two Senate Committees<sup>156</sup> asserted jurisdiction over the most recent Price-Anderson

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<sup>155</sup>98th Cong., 1st Sess. (1983).

<sup>156</sup>The Senate Committees that held hearings and reported bills were the Energy and Natural Resources Committee, and the Environment and Public Works Committee. The House Committees that held hearings and reported bills were the Interior and Insular Affairs Committee, the Energy and Commerce Committee, and the Science and Technology Committee (renamed the Science, Space and Technology Committee in the 100th Congress). Additionally, the House Rules Committee three times considered whether to send a bill to the floor. While they might have asserted jurisdiction over Price-Anderson legislation, the House and Senate Armed Services Committees did not do so. When the Price-Anderson Act previously was extended in 1975, only one committee, the JCAE, had jurisdiction over the legislation. It was abolished that year.



extension. A number of hearings were held<sup>157</sup> and reports issued<sup>158</sup> by each between 1984 and 1987. The five Committees all reported bills before the 1986 Labor Day recess,<sup>159</sup> but the 99th Congress adjourned before a bill could reach the floor of either house.<sup>160</sup> Following reintro

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<sup>157</sup>See, e.g., *Amendments to the Price-Anderson Act*, Hearing Before the Subcommittee on Energy and the Environment of the House Committee on Interior and Insular Affairs, Serial 98-32, 98th Cong., 2d Sess. (1984); *Amendments to the Price-Anderson Act*, Hearing Before the Subcommittee on Energy and the Environment of the House Committee on Interior and Insular Affairs, 99th Cong., 1st Sess. (1985); *Price-Anderson Amendments Act of 1985*, Hearing Before the Subcommittee on Energy Research and Development of the Senate Committee on Energy and Natural Resources, S.Hrg. 99-439, 99th Cong., 1st Sess. (1985); *Reauthorization of the Price-Anderson Act, 1985*, Hearing Before the Subcommittee on Nuclear Regulation of the Senate Committee on Environment and Public Works, 99th Cong., 1st Sess. (1985); *Price-Anderson Legislation*, Hearing Before the Subcommittee on Energy Conservation and Power of the House Committee on Energy and Commerce, Serial 99-154, 99th Cong., 2d Sess. (1986); *Legislative Inquiry on the Price-Anderson Act*, By Subcommittee on Energy Research and Production of the House Committee on Science and Technology, 99th Cong., 2d Sess. (Feb. 1986) [hereinafter cited as *1986 House Science Inquiry*]; *Reauthorization and Extension of the Price-Anderson Act*, Hearing Before the Senate Committee on Energy and Natural Resources, S.Hrg. 100-236, 100th Cong., 1st Sess. (1987); *Price-Anderson Amendments Act of 1987*, Hearing on S. 44 and S. 843 Before the Subcommittee on Nuclear Regulation of the Senate Committee on Environment and Public Works, 100th Cong., 1st Sess. (1987); *H.R. 1414, the Price-Anderson Amendments Act of 1987*, Hearing Before Subcommittee on Energy Research and Development of the House Committee on Science, Space and Technology, Committee Serial 30, 100th Cong., 1st Sess. (June 1987); *Price Anderson Amendments Act of 1987*, Hearings Before the Subcommittee on Energy and the Environment of the House Committee on Interior and Insular Affairs, and Subcommittee on Energy and Power of the House Committee on Energy and Commerce, Committee Serial 100-JH1, 100th Cong., 1st Sess. (March 1987).

<sup>158</sup>See, e.g., *1987 Senate Energy Committee Report*, *supra* note 3; *1987 Senate Environment Committee Report*, *supra* note 6; *1987 House Interior Committee Report*, *supra* note 3; *1987 House Science Committee Report*, *supra* note 3; *1987 House Energy Committee Report*, *supra* note 3; H.Rep. 99-636, Part 1, 99th Cong., 2d Sess. (June 12, 1986) (House Interior Committee); H.Rep. 99-636, Part 2, 99th Cong., 2d Sess. (Aug. 5, 1986) (House Science Committee); and H.Rep. 99-636, Part 3, 99th Cong., 2d Sess. (Sept. 9, 1986) (House Energy Committee).

<sup>159</sup>*Id.*

<sup>160</sup>Efforts to take "compromise" versions to the House and Senate floors before the 99th Congress adjourned *sine die* in mid-October 1986 were unsuccessful, largely because of threatened floor amendments, as well as strong power plant operator opposition to a number of proposed changes in  
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duction of bills early in the 100th Congress, additional hearings and another GAO Report in June 1987 recommending renewal,<sup>161</sup> the House passed H.R. 1414<sup>162</sup> at the end of July 1987. However, it was not until March 1988 that a Price-Anderson bill reached the Senate floor. Final passage of the 1988 amendments did not come until August of that year, when the Senate accepted a "compromise" version of H.R.1414 that had modified some of the Senate floor amendments. President Reagan signed the final bill on August 20, 1988.<sup>163</sup> Unlike the earlier two ten-year extensions, the 1988 extension was for fifteen years (to August 1, 2002).<sup>164</sup>

For nuclear power plant licensees, the principal changes brought about by the 1988 amendments related to increased retrospective premiums (and the resulting increase in the

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(...continued)

Price-Anderson. A "floor vehicle" drafted by the staff of the House Interior Committee attempted to reconcile provisions of the bill reported from three House Committees. This was introduced by Chairman Udall (as H.R. 5650, 99th Cong., 2d Sess. (1986)) on October 6, 1986. It contained a requirement that DOE submit a report to Congress on criminal and civil penalties, which, as discussed, *infra* notes 123-124 and accompanying text, had been added by the Science Committee in July 1986. Some bill might have been enacted that month. There had been serious and apparently fruitful discussions among the House and Senate principals on an acceptable bill (with a limit of about \$6.5 billion and no inflation indexing). However, nuclear power plant operators until very near the end of the Session had been strongly opposing any new Price-Anderson limit much above \$2 billion. On October 7, 1986, the House Rules Committee decided not send a bill to the floor, largely because of perceptions about the time that would be taken by threatened floor amendments (including a subrogation provision applicable to DOE contractors).

<sup>161</sup>1987 GAO Report, *supra* note 78.

<sup>162</sup>100th Cong., 1st Sess. (1987).

<sup>163</sup>Most of the changes contained in the 1988 Amendments Act are applicable to all nuclear incidents occurring on or after the date of the bill's enactment (*i.e.*, August 20, 1988). Pub.L. No. 100-408, §20; 102 Stat. 1084. *Cf. Crawford v. National Lead Co.*, 784 F.Supp. 439 (S.D. Ohio 1989) (finding the new punitive damages provision did not apply with respect to claims arising between 1951 to 1985).

<sup>164</sup>The bills reported by the Senate Energy Committee on June 12, 1987 and the Senate Environment Committee on November 12, 1987 would have extended authority for the Price-Anderson indemnification system for DOE contractors for thirty years in connection with the new inflation indexing provision. *1987 Senate Energy Committee Report*, *supra* note 3, at 12, 19, reprinted in [1988] U.S. Code Cong. & Ad. News 1425, 1432; *1987 Senate Environment Committee Report*, *supra* note 6, at 1, 4, 12.

overall limitation on liability), coverage for "precautionary evacuations", and clarification of coverage of costs for investigating, settling and defending claims. DOE contractor coverage was subject to similar changes, in addition to the fact the such coverage became mandatory. Certain DOE "contractor accountability" provisions (new civil and enhanced criminal penalties for nuclear safety violations) were added.<sup>165</sup> The 1988 Amendments also specifically provided that Price-Anderson coverage applies to DOE's nuclear waste activities.<sup>166</sup>

#### **B. Liability Amounts Substantially Increased**

The 1988 Amendments substantially increased the liability limit for NRC-licensed nuclear powerplants; and, for the first time, provided the indemnity and liability limit for DOE contractors would be equal to the highest amount applicable to power plants.<sup>167</sup> For power plants, the retrospective premium was increased to \$63 million per incident per plant (from \$5 million), with no more that \$10 million payable in any year. Additionally, the retrospective premium was made subject to inflation indexing; and, became subject to an additional five percent surcharge for legal costs. The effect of these changes was to increase the limitation on liability (from about \$715 million per incident at a power plant and \$500 million at a DOE facility before the 1988 Amendments, to about \$7.313 billion at both power plants and DOE facilities after the 1988 Amendments, and to about \$9.4 billion at DOE contractor facilities as of January 1998).<sup>168</sup>

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<sup>165</sup>*Id.*, §§17 and 18; 102 Stat. 1081 (codified at 42 U.S.C. §§2282a and 2273(c)).

<sup>166</sup>*See, e.g., id.*, §4(a)d(1)(B)(ii); 102 Stat. 1068. A new definition of "nuclear waste activities" was added by the 1988 Amendments. *Id.*, §4(b)ff; 102 Stat. 1070; 42 U.S.C. §2014ff.

<sup>167</sup>DOE supported increasing the amount to that applicable to power plants. *1983 DOE Report, supra* note 6, at 6. At one point, the House Interior Committee had considered requiring DOE to indemnify contractors to "the full extent of potential aggregate liability of the contractor." *1987 House Interior Committee Report, supra* note 3, at 13, 23. *See 1987 House Science Committee Report, supra* note 3, at 12-13, 15-16 (noting "there is no such thing as unlimited compensation," since a decision on the total assets available for such compensation must eventually occur and it would be "unwise and irresponsible to purport to enable all damage victims to reach into the federal Treasury (through contractor indemnification) for compensation.").

<sup>168</sup>In the case of liability associated with NRC-licensed power plants, if the primary level of financial protection afforded by the plant's Facility Form insurance policy were insufficient to pay all claims, power plant operators would be assessed a "standard deferred premium" per incident. This amount was raised to \$63 million per power plant by the 1988 Amendments and to \$75.5 million by the NRC's 1993 quinquennial inflation adjustment. 58 Fed.Reg. 42851 (Aug. 12, 1993). Under the 1988 Amendments, an additional five percent can be added to the standard deferred premium to cover legal  
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### **C. Compensation Above the Liability Limit**

Also added to the limitation-on-liability subsection (§170e) was a provision whereby Congress specifically reserved the right to enact a "revenue measure" applicable to NRC licensees to reimburse the Federal Government if it provides compensation above the limitation.<sup>169</sup>

The 1988 Amendments further clarified how Congress would consider "compensation plans" if the limitation on liability were exceeded. Section 7 required the President to submit a comprehensive compensation plan to Congress within ninety days of a court determination that public liability for any nuclear incident may exceed the aggregate limitation.<sup>170</sup> Expedited procedures for Congressional consideration were provided.<sup>171</sup>

### **D. DOE Coverage Made Mandatory**

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(...continued)

defense costs, bringing the current amount to \$79.275 million. 42 U.S.C. §2210(o)(1)(E). *See 1987 House Energy Committee Report, supra* note 3, at 18. As of January 1998, the amount of power plant coverage and the limitation on liability for power plants is \$200 million under the Facility Form plus \$8.7915975 billion under the Retrospective Plan (based upon 110 nuclear power plants "operating" as of January 1998 times \$79.275 million each) for a total of US\$8.9915975 billion. At the high point of 116 nuclear power plants "operating," the figure had reached US\$9.3959 billion. This higher amount still is applicable under DOE indemnification agreements, since the 1988 Amendments provide the DOE amount cannot be reduced from the maximum previous NRC amount. 42 U.S.C. §2210(d)-(3)(B). *See 1987 House Science Committee Report, supra* note 3, at 12. With the number of nuclear power plants in the United States now decreasing for the first time, the amount of DOE coverage is likely to remain constant until the 1998 inflation adjustment. The 1988 Amendments did not raise the \$500 million limit applicable to NRC-licensed non-profit educational institution reactors or reactors operated by other federal agencies.

<sup>169</sup>Pub.L. No. 101-408, §6e(3); 102 Stat. 1071 (codified at 42 U.S.C. §2210(e)(3)).

<sup>170</sup>This provision is codified at 42 U.S.C. §2210(i).

<sup>171</sup>*Id.*

The 1988 Amendments made coverage for DOE contractors mandatory for the first time.<sup>172</sup> This provision (first suggested in the 1957 hearings<sup>173</sup>) was added in order to make coverage apply in more situations, and to avoid requiring DOE to determine administratively whether a particular activity presented a "substantial" nuclear risk.<sup>174</sup>

#### E. "Precautionary Evacuations" Covered

For the first time, the Price-Anderson Act clearly covered liability arising from a "precautionary evacuation", even if it later is determined no "nuclear incident" had occurred.<sup>175</sup>

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<sup>172</sup>Pub.L. No. 100-408, §4(a)d(1)(A); 102 Stat. 1068.

<sup>173</sup>1957 *Hearings*, *supra* note 4, at 176 (statement of Professor Murphy) and 250 (statement of Dr. Davenport).

<sup>174</sup>Prior to the 1988 Amendments, DOE regulations permitted routine issuance of Price-Anderson indemnity only when it was determined by the Head of a Procuring Activity that there existed a risk of damage to persons or property due to the nuclear hazard of \$60 million or more. *See* DOE Procurement Regulation 41 C.F.R. §9-10.5005(b) (1983), *reprinted in 1983 DOE Report*, *supra* note 6, at B-3. Such a determination often was very distasteful for DOE to make from a political and public relations standpoint, with the result that both the general public and the particular contractor may have been subject to substantial uninsured risk if that determination proved to have been overly optimistic. For example, DOE's discretion became a significant issue for the State of New Mexico in connection with the Waste Isolation Pilot Plant (WIPP) Project in the early 1980s. At the time, DOE stipulated that it was the Department's "current intention" to include a Price-Anderson indemnity article in any WIPP operating contract, but DOE said it could not "stipulate away its discretion in this regard." Supplemental Stipulated Agreement Resolving Certain State Off-Site Concerns Over WIPP, *State of New Mexico, ex rel. Bingaman v. DOE*, No. 81-0363 JB, at 5-6 (D.N.Mex., Dec. 29, 1982). *See also* Opinion of the DOE General Counsel on Application of the Price-Anderson Act to WIPP at 13-15 (Dec. 9, 1982). In 1987, the Senate Energy Committee indicated it felt that the protection afforded the public by the Price-Anderson Act was important enough to justify removing DOE's discretion. 1987 *Senate Energy Committee Report*, *supra* note 3, at 19, *reprinted in* [1988] U.S. Code Cong. & Ad. News 1432. H.R. 1414 also eliminated the substantiality test and required DOE to indemnify all contractors. 1987 *House Interior Committee Report*, *supra* note 3, at 12-13. *See also* 1987 *House Science Committee Report*, *supra* note 3, at 9-10.

<sup>175</sup>Pub.L. No. 100-408, §5; 102 Stat. 1070. *See* 42 U.S.C. §2014gg (defining "precautionary  
(continued...)

## **F. Federal Court Jurisdiction**

Federal court jurisdiction and consolidation of claims were made available for any "nuclear incident", instead of just for ENOs or where it appears the limitation on liability will be reached as had been the case.<sup>176</sup> This provision was made effective retroactively specifically to allow for consolidation of certain pending Three Mile Island cases that had been removed to state courts.<sup>177</sup>

## **G. Punitive Damages**

Section 14 of the 1988 Act provided no court may award punitive damages where the Federal Government is obligated to make payments under an agreement of indemnification.<sup>178</sup> This provision was added to ensure that Federal taxpayers would not have to pay punitive damages, consistent with established Federal policy (most forcefully stated in the Federal Tort Claims Act<sup>179</sup>) that punitive damages may not be awarded against the Federal Government.<sup>180</sup>

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evacuation"). *See also 1987 House Science Committee Report, supra* note 3, at 14-15.

<sup>176</sup>*Id.*, §11; 102 Stat. 1076. This overruled a decision of the U.S. Court of Appeals for the Third Circuit in the litigation following the Three Mile Island accident that federal courts did not have subject matter jurisdiction for claims arising out of a non-ENO nuclear incident. *Stibitz v. GPU*, 746 F.2d 993 (3d Cir. 1984), *cert. denied*, 105 S.Ct. 1187 (1985). *See 1987 Senate Environment Committee Report, supra* note 6, at 13, *reprinted in* [1988] U.S. Code Cong. & Ad. News 1488.

<sup>177</sup> *In re TMI Litigation Cases Consol. II*, 940 F.2d 832 (3d Cir. 1991), *cert. denied* 503 U.S. 906 (1992) (upholding constitutionality of retroactive application of Federal court jurisdiction).

<sup>178</sup>Pub.L. No. 100-408, §14; 102 Stat. 1078 (codified at 42 U.S.C. §2210s).

<sup>179</sup>28 U.S.C. §2674.

<sup>180</sup>*1987 Senate Energy Committee Report, supra* note 3, at 27, *reprinted in* [1988] U.S. Code Cong. & Ad. News 1440; *1987 Senate Environment Committee Report, supra* note 6, at 12-13, *reprinted in* [1988] U.S. Code Cong. & Ad. News 1487-1488. The Senate Energy Committee report of June 12, 1987 said this provision did not preclude the award of punitive damages against persons, including NRC licensees, who are not indemnified by DOE under the Price-Anderson Act. The Energy Committee report said it intended no preference, for or against the awarding of punitive damages against such persons, be inferred from the inclusion of this new provision. *Id.* The Senate Environment Committee Report of November 12, 1987 went a little further by adding  
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## **H. Inflation Adjustment**

**Section 15 of the 1988 Act made the retrospective premium applicable to power plant licensees subject to inflation indexing not less than every five years based on the Consumer Price Index.<sup>181</sup>**

## **I. Other 1988 Amendments**

**Certain changes also were made in the Act's ENO provisions: First, the ENO waivers of shorter statutes of limitations are modified to eliminate the twenty-year outside limit, *i.e.* the ENO waiver now would apply to any statute shorter than a three-year-from-discovery limit. Second, the ENO provisions also were made applicable to DOE nuclear waste activities.<sup>182</sup>**

**Finally, in addition to technical and conforming amendments, the 1988 Act established a Presidential Commission on Catastrophic Nuclear Accidents to conduct a two-year study on certain issues (including special standards or procedures for latent injuries).<sup>183</sup> It also required**

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punitive damage awards also would be prohibited in suits against NRC licensees covered by the retrospective premium system if, as a result of such an award, payments beyond the primary and secondary layers of financial protection would be necessary, since the United States is obligated to provide a source of funding for such claims. It added the bill (S. 1865) did not otherwise affect current law regarding punitive damages. *Id.* At one point, the House considered an amendment that would have prohibited use of either private financial protection or government indemnity funds available under the Act to pay punitive damage awards. *See 1987 House Interior Committee Report, supra* note 3, at 19.

<sup>181</sup>Pub.L. No. 100-408, §15; 102 Stat. 1078 (codified at 42 U.S.C. §2210(t)).

<sup>182</sup>Pub.L. No. 101-408, §10; 102 Stat. 1075. The rest of the Act previously applied to DOE's nuclear waste activities, but the 1988 Amendments Act made this more explicit. *See 1987 Senate Environment Committee Report, supra* note 6, at 10, *reprinted in* [1988] U.S. Code Cong. & Ad. News 1485; *1987 House Interior Committee Report, supra* note 3, at 12; *1987 House Energy Committee Report, supra* note 3, at 13.

<sup>183</sup>Pub.L. No. 100-408, §9; 102 Stat. 1074. The Commission issued its report in 1990. *Report to the Congress from the Presidential Commission on Catastrophic Nuclear Accidents* (Aug. 1990). It contains a number of recommendations on civil procedures, claim priorities and latent injury.

NRC to conduct a negotiated rulemaking on possible Price-Anderson coverage for radiopharmaceutical licensees.<sup>184</sup>

#### **J. More Attention to DOE Contractor Coverage**

As in the case of prior Congressional consideration of Price-Anderson legislation, most attention during the last extension had been expected to focus on liability coverage and the limit for nuclear power plants. However, by mid-1985, several environmental groups had begun to criticize the scope of coverage for DOE contractors. For example, at a House Interior Committee hearing on June 6, 1985, Keiki Kehoe, testifying for several environmental groups, said DOE should be responsible for "fully" compensating all damages to the public resulting from its contractor activities (and should be allowed to indemnify its contractors against the risk of public liability). However, she added that, if the accident is "caused" by the contractor's "negligence", DOE should be required to seek recovery of the amount of compensation through legal action against the contractor.<sup>185</sup> She repeated this statement at a Senate Energy Committee hearing on June 25, 1985. At that hearing, Senator Metzenbaum announced his intention to introduce a bill that would hold DOE contractors "liable for their own negligence" and hold company executives criminally liable for "gross negligence." By the end of July 1985, even House Interior Committee Chairman Udall was leaning toward supporting some sort of subrogation provision.<sup>186</sup>

In October 1985, the Coordinating Committee of the Price-Anderson Contractors Policy Issues Study issued an updated position statement criticizing suggestions that Price-Anderson indemnification somehow acts as a disincentive to safety at DOE facilities. M.G. Johnson of Bechtel, Chairman of the Coordinating Committee, made a similar pronouncement at a hearing before the Senate Environment Subcommittee on Nuclear Regulation on October 22, 1985 and in a statement submitted to the House Science Subcommittee on Energy Research and

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<sup>184</sup>Pub.L. No. 100-408, §19; 102 Stat. 1083.

<sup>185</sup>Two days earlier, Rep. Weiss had introduced H.R. 2665, 99th Cong., 1st Sess. (1985), containing a provision that would have required actions against contractors, which he said had been inspired by Ms. Kehoe's organization. *See* 131 Cong. Rec. H2528 (daily ed. June 4, 1985).

<sup>186</sup>For example, in a July 23, 1985 draft of a memorandum to the members of the House Interior Subcommittee on Energy and the Environment, Chairman Udall said he did "...not believe that the federal government should be in the position of shouldering all of the cost of an accident that is the fault of a reckless contractor." He suggested therein that the Subcommittee might want to consider providing a "right of subrogation" if a contractor were found "negligent or grossly negligent". In an October 22, 1985 memorandum, he suggested limiting this approach to cases of "gross negligence". Then, on October 24, 1985, he circulated a draft bill containing a subrogation provision based on the "willful or wanton conduct of a [contractor's] director or executive officer".



Production on November 15, 1985.<sup>187</sup> At the October 22, 1985 hearing, James Vaughan, then acting DOE Assistant Secretary for Nuclear Energy, in response to a question, said the Department "would not object" to a provision allowing a right of subrogation against contractors for "willful misconduct" and "gross negligence". Later, in response to a question from the House Science Committee, DOE on February 18, 1986 submitted a written answer indicating the Department did "...not recommend the inclusion of legally imprecise terms as gross negligence, willful misconduct, or bad faith, which could lead to uncertainty on the part of our contractors and to their possible withdrawal from participation."<sup>188</sup>

#### **K. Consideration of DOE "Contractor Accountability" Provisions**

DOE contractors began vigorously opposing any subrogation provision during October 1985. Arguments used included the fact that it is virtually impossible to distinguish among levels of negligence in today's tort law, so more litigation would ensue and Price-Anderson's "omnibus" feature<sup>189</sup> would be destroyed. Largely due to strong opposition from the contractor community, the House Interior Subcommittee eliminated the subrogation provision from the then unnumbered Udall bill<sup>190</sup> at its markup on November 19, 1985.<sup>191</sup>

The dispute over whether to include some "contractor accountability" provision continued into 1986: The full House Interior Committee put a subrogation provision back into H.R. 3653 at its April 23, 1986 markup, but then eliminated it by voice vote at the May 21, 1986 final markup when the bill was reported.<sup>192</sup>

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<sup>187</sup>1986 House Science Inquiry, *supra* note 85, at 154, 157.

<sup>188</sup>*Id.*, at 5, 46.

<sup>189</sup>This, as discussed, *infra* note 174 and accompanying text, is the feature whereby Price-Anderson nuclear hazards indemnity agreements cover "anyone liable", not just the entity with whom the agreement is executed.

<sup>190</sup>The Udall bill, later introduced as H.R. 3653, 99th Cong., 1st Sess. (1985), was reported to the full Interior Committee on December 10, 1985.

<sup>191</sup>The Interior Subcommittee did this by adopting by voice vote an amendment offered by Rep. Huckaby to delete the entire subrogation section. This followed a 10-to-16 roll call vote on an amendment in nature of a substitute offered by Rep. Seiberling to change the Udall subrogation provision from one requiring "willful or wanton conduct" to one requiring only simple negligence.

<sup>192</sup>See 1987 House Interior Committee Report, *supra* note 3, at 57 and 60 (providing additional  
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On February 18, 1986, Senator Metzenbaum introduced S. 2072.<sup>193</sup> Among other things, this bill would have eliminated Price-Anderson's limitation on liability for contractors, and required DOE to seek subrogation in cases of "gross negligence" or "willful misconduct". At its March 26, 1986 markup session, the Senate Energy Committee rejected (3 to 12) a subrogation amendment to S. 1225 (the mark-up vehicle) offered by Senator Metzenbaum. Subsequently, at the same Committee's April 24, 1986 markup (when it reported S. 1225), a civil penalty provision offered by Senator Rockefeller was added to S.1225. The Rockefeller amendment would have created a new discretionary civil penalty of up to \$10 million for DOE contractors, if a "nuclear incident" or "precautionary evacuation" were the result of "gross negligence or willful misconduct on the part of any contractor who is a party to [an] agreement of indemnification, or any subcontractor or supplier of such contractor."<sup>194</sup>

On July 29, 1986, the House Science Committee reported a modified version of H.R. 3653<sup>195</sup> containing a provision requiring DOE to conduct a six-month study on the need for civil and criminal penalties.<sup>196</sup>

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views on the merits of removing any subrogation provisions from the final bill) and at 69-70 (providing a dissenting view on removing the subrogation provisions). After the bill was reported from the Interior Committee, the House Energy and Science Committees both sought sequential referrals of H.R. 3653; and, were given until August 11, 1986 to act.

<sup>193</sup>99th Cong., 2d Sess. (1986).

<sup>194</sup>The full Senate Environment Committee reported its own version of S. 1225 on August 6, 1986. This version (unlike the Energy Committee's) did not contain any DOE contractor civil penalty provision. On October 6, 1986, Senators Simpson, McClure, Stafford, Johnston, Bentsen and Domenici (the Chairmen and Ranking Minority members of the two Committees) introduced a proposed amendment (No. 3238) in the nature of a substitute for the two different versions of S. 1225 that had been reported by the Energy and Environment Committees. *See* 132 Cong.Rec. S15403 (daily ed. Oct. 6, 1986). It dropped the DOE contractor civil penalty provision that had been in the Energy Committee version of S. 1225.

<sup>195</sup>99th Cong., 2d Sess. (1986).

<sup>196</sup>Otherwise, this bill probably contained the most features favorable to DOE contractors of any Price-Anderson bill reported during the 99th Congress. *See 1987 House Science Committee Report, supra* note 3, at 13. The Science Committee Report, in explaining its amendment requiring DOE to report to Congress on the civil and criminal liability of any contractor or other person indemnified for intentionally causing, or attempting to cause, a nuclear accident at a contractor-operated facility, said the Committee  
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The House Energy Committee reported a third version of H.R. 3653 on August 12, 1986. This version was the most extreme of the five bills reported from Committees during the 99th Congress. For example, it would have provided "unlimited" liability (and indemnity) for all DOE contractor activities. Nevertheless, the House Energy Committee had rejected an attempt to add a subrogation provision.<sup>197</sup>

Price-Anderson extension consideration resumed shortly after the 100th Congress convened at the beginning of 1987. On March 4, 1987, Chairman Udall introduced H.R. 1414,<sup>198</sup> which then was substantially the same as H.R. 5650,<sup>199</sup> the October 1986 "compromise" bill (*i.e.*, without any subrogation provision, but with the requirement for DOE to submit a report to Congress on civil and criminal penalties). H.R. 1414, as introduced, thus included a requirement (§12(3)) that DOE submit a report to Congress identifying and explaining the criminal and civil liabilities of all DOE contractors and other persons indemnified.

Senators Johnston and McClure introduced S. 748<sup>200</sup> (a bill covering only DOE contractors) on March 17, 1987 in time for a Senate Energy Committee hearing the next day. At that hearing, the DOE witness (again James Vaughan) was questioned at length by Senator Metzenbaum about whether Price-Anderson should be modified to exclude coverage when contractors are found to have been "grossly negligent" or "willful and wanton".<sup>201</sup> While Mr.

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believed "strongly that such misconduct should be punished". *Id.* The report noted that contractors had alleged that the government already possessed authority to punish misconduct.

<sup>197</sup>See 1987 House Energy Committee Report, *supra* note 3, at 53 (providing the additional views of five House Energy Committee members that holding harmless a party in the case of "gross negligence or willful disregard to the public safety is bad policy...").

<sup>198</sup>100th Cong., 1st Sess. (1987).

<sup>199</sup>99th Cong., 2d Sess. (1986).

<sup>200</sup>100th Cong., 1st Sess. (1987).

<sup>201</sup>During this hearing, it even was suggested that DOE contractors should be required to maintain private insurance to protect themselves against claims from accidents resulting from "gross negligence". In response to a March 30, 1987 inquiry from Chairman Johnston, the nuclear insurance pools on April 3, 1987 wrote that a private insurance market for government contractor activities was not likely to arise and the possibility of developing a market restricted to covering "gross negligence" or "willful misconduct" was "very remote indeed". See April 3, 1987 letter from R.A. Schmalz, Esq. to Chairman

Vaughan strongly denied that Price-Anderson coverage acts as a disincentive to safety, this questioning was an indication that the subrogation and DOE contractor civil penalty issues (fought and won by contractors in 1986) had not been left behind.

The full Senate Energy Committee held a markup on S. 748 on April 8, 1987. The principal issue was whether a civil penalty provision should be added to Price-Anderson. At one point, it appeared that Senator Metzenbaum would agree to withdraw his three proposed amendments<sup>202</sup> (and agree not to offer them again on the Senate floor) in exchange for an amendment that would have provided a DOE contractor civil penalty of up to \$30 million where a nuclear incident was the result of a contractor's "gross negligence or willful misconduct". However, a consensus on the exact language could not be reached.

The Senate Energy Committee resumed marking up S. 748 on April 22, 1987, and adopted extremely broad DOE contractor civil and criminal penalty provisions offered by Chairman Johnston, apparently as an alternative to even more onerous subrogation provisions. The amendment was passed by a vote of 15 to 2, subject to possible future amendments by Senator Bingaman (to exempt "nonprofit" contractors) and Senator Wirth (to broaden it to cover violations of even non-DOE "safety" requirements). The Johnston amendment of April 22d was not restricted to high corporate officials, and would have provided for fines up to \$10 million in the case of a mere "nuclear incident". However, there was a provision requiring the Secretary of Energy to take into account various factors in determining the amount of the fine, including a contractor's ability to pay.

Before the next Energy Committee Price-Anderson markup on May 20, 1987, a number of DOE contractors sent letters to Senators Johnston and McClure strongly opposing the April 22d civil penalty amendment. They indicated such penalty provisions would be excessive and unreasonable (especially in view of the largely non-profit nature of the contracts), and would create an adversarial relationship with DOE. Several expressed an unwillingness to continue contracting with DOE under such circumstances.<sup>203</sup>

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Johnston.

<sup>202</sup>The three Metzenbaum amendments involved adding a subrogation provision, making the waivers of defenses now applicable only to "extraordinary nuclear occurrences" apply to all "nuclear incidents", and striking section 13 of S. 748, which prohibited the awarding of punitive damages in all cases covered by Federal Government indemnity.

<sup>203</sup>See *Berkovitz*, *supra* note 38, at 31.

The Senate Environment Committee's Nuclear Regulation Subcommittee held a hearing on April 30, 1987 at which Assistant DOE Secretary for Nuclear Energy David Rossin made strong statements opposing any provisions on subrogation or civil penalties. In a May 5, 1987 letter to Chairman Johnston, Secretary of Energy John Herrington said DOE would recommend a Presidential veto if the bill were passed in a form that was not sufficiently tailored to avoid the problems of subrogation or "severe" civil penalties.<sup>204</sup> Presumably in light of these reactions, the Energy Committee postponed markups that had been scheduled for May 6 and 13, 1987.

On May 20, 1987, the full Senate Energy Committee reported S. 748 with certain amendments, including alternative "contractor accountability" provisions offered by Senators Johnston and McClure. This modification apparently was influenced by the letters sent by DOE and various contractors. The Energy Committee reported S. 748 by a vote of 17 to 1.<sup>205</sup> (Senator Metzenbaum was the sole dissenter.) This vote followed a lengthy discussion of the "contractor accountability" issue, which Chairman Johnston opened by saying the Committee may have acted "improvidently" at its April 22d markup. He noted that, when he offered his four-tier civil penalty provision, he had been unaware of the "profits" DOE contractors earn. Senators Bingaman and Domenici of New Mexico offered an amendment to exempt certain nonprofit contractors, which was adopted by a vote of 12 to 5 after it was agreed to actually name nine exempt facilities (as opposed to contractors).<sup>206</sup> Senator Fowler offered an amendment to reinstate a \$10 million civil penalty where there was a "nuclear incident"; it failed by a vote of 7 to 9. The civil and criminal penalty provisions of the Johnston-McClure amendment then were adopted by a vote of 12 to 7.

The Senate Environment Committee held a markup and unanimously reported the then-unnumbered Breaux bill (later numbered S. 1865<sup>207</sup> and dealing almost exclusively with nuclear power plant coverage) on August 4, 1987.<sup>208</sup> At that markup, the Committee adopted by voice

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<sup>204</sup>The Secretary's letter is reprinted in *1987 Senate Energy Committee Report*, *supra* note 3, at 65-66 and [1988] U.S. Code Cong. & Ad. News 1472-1473.

<sup>205</sup>See *1987 Senate Environment Committee Report*, *supra* note 6, at 1, 67, reprinted in [1988] U.S. Code Cong. & Ad. News 1476.

<sup>206</sup>The exemption from civil penalties is for seven named DOE contractors (and any subcontractors or suppliers thereto) for activities associated with nine named laboratories. See 42 U.S.C. §2282a(d).

<sup>207</sup>100th Cong., 1st Sess. (1987).

See *1987 Senate Environment Committee Report*, *supra* note 6. The Environment Committee Report noted that the civil and criminal penalties applicable to DOE nuclear waste

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vote an amendment offered by Senator Durenberger to apply to DOE nuclear waste contractors the same civil and criminal penalty provisions contained in S.748 as reported from the Energy Committee.<sup>209</sup>

Meanwhile, the Energy and Power Subcommittee of the House Energy Committee held a markup session on June 3, 1987, and reported to the full Committee H.R. 1414 (as previously reported from the Interior Committee) with certain amendments. Representative Wyden offered, but then withdrew for later consideration by the full Committee, an amendment providing for subrogation in the event of "bad faith, willful misconduct or gross negligence of any corporate officer, manager, or superintendent". Significantly, Subcommittee Chairman Sharp stated that he was committed to some contractor "financial responsibility" provision, *i.e.* either some civil penalty or subrogation, and/or a program of independent oversight of DOE activities. He criticized DOE and its contractors for not agreeing to some "compromise". Other members also stressed the need for some "contractor accountability" provision. Nevertheless, throughout this period, DOE and its contractors maintained the position that no compromise was possible.

The full House Energy Committee on July 8, 1987 reported out H.R. 1414 without any DOE contractor civil penalty or subrogation provision (other than the penalty report requirement).<sup>210</sup> The key Energy Committee vote was on a civil penalty/subrogation amendment offered by Representatives Wyden, Sharp and Synar. The amendment failed on a 21-to-21 tie.

On July 23, 1987, Chairmen Udall, Dingell, Roe and Sharp introduced H.R. 2994,<sup>211</sup> a new "compromise" version of H.R. 1414. Since no substantive civil penalty/subrogation provisions

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activities that would be available under its amendment were identical to those in the Energy Committee's reported version of S. 748 and "similar" to those already available for violations of NRC rules, regulations or orders by NRC licensees. *Id.* at 11 and 21, *reprinted in* [1988] U.S. Code Cong. & Ad. News 1486, 1496.

<sup>209</sup>On October 23, 1987, Senators Johnston and McClure introduced an amendment (No. 1038) as a proposed substitute for the bills previously reported from the Senate Energy and Environment Committees. *See* 133 Cong. Rec. S15057 (daily ed. Oct. 23, 1987). This amendment, which contained the previously adopted civil and criminal penalty provisions, apparently was introduced to provide a ready vehicle for Senate floor action before the end of 1987.

<sup>210</sup>*See 1987 House Energy Committee Report, supra* note 3.

<sup>211</sup>100th Cong., 1st Sess. (1987).

had been adopted by any of the three House committees, those issues were not addressed in H.R. 2994.

#### **L. Final Passage in 1987-1988**

The House of Representatives passed the "compromise" version of H.R. 1414 (substituted for H.R. 2994 on the floor) without any further amendments on July 30, 1987 by a final vote of 396 to 17.<sup>212</sup> On July 29th, the House defeated the Wyden-Sharp-Synar DOE contractor civil penalties/subrogation amendment by a vote of 193 to 226.<sup>213</sup> This was a very significant victory for DOE and its contractors, especially in light of the fact that the amendment was supported by Chairmen Udall, Dingell and Sharp, and Majority Leader Foley.

Concerted efforts were made by Chairman Johnston and others to bring a bill to the Senate floor before the end of the 1st Session of the 100th Congress in December 1987, but time simply ran out before the Congress adjourned for the year. By around the end of January 1988, an agreement was reached among the leadership of the Energy and Environment Committees to take up the House bill, H.R. 1414, on the Senate floor. However, Senator Metzenbaum continued to threaten a filibuster if his "contractor accountability" amendments were not accepted. Finally, Senators Johnston and Metzenbaum reached a compromise whereby Senator Johnston would accept the DOE contractor civil and criminal penalty provisions as previously reported from the Energy Committee on May 20, 1987.

Senate floor debate on Price-Anderson extension finally was held on March 16-18, 1988. It began with adoption (on a roll call vote of 94 to 0) of the DOE contractor penalty provisions of S.748, almost verbatim as reported from the Energy Committee the previous May.<sup>214</sup> Because of the compromise reached ahead of time, there was minimal floor discussion about the penalty amendment. Chairman Johnston (the floor manager for the Energy Committee) did say this provision "...represents a good balance between not driving the good contractors out of business on the one hand and yet providing a severe enough penalty. After all, \$100,000 per day is a tremendous penalty and we think it is sufficient to ensure that [contractors'] conduct will be of

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<sup>212</sup>See 133 Cong.Rec. H6769 (daily ed. July 29, 1987) and H6828-H6832 (daily ed. July 30, 1987).

<sup>213</sup>See 133 Cong.Rec. H6781-H6792 (daily ed. July 29, 1987).

<sup>214</sup>On the Senate floor, Senator Johnston offered a modification (previously agreed to by the affected committees) providing that DOE would not enforce U.S. Department of Transportation standards. See 134 Cong.Rec. S2309 and S2377 (reprinting Amendment No. 1664) (daily ed. Mar. 16, 1988).

the very highest order."<sup>215</sup> On the same day, the Senate (on a roll call vote of 53 to 41)<sup>216</sup> tabled Senator Metzenbaum's attempt to add a subrogation provision to the bill.<sup>217</sup>

Final passage of the 1988 amendments did not come until August: The House (on a roll call vote of 346 to 54) adopted a "compromise" version of H.R. 1414 modifying some of the Senate floor amendments on August 2, 1988.<sup>218</sup> The Senate (by voice vote) accepted the House amendments on August 5, 1988.<sup>219</sup> President Reagan signed the bill on August 20, 1988, a little over one year after the Act had expired on August 1, 1987.

Between the time the Senate passed H.R. 1414 in March and final passage in August, there were some discussions about the DOE civil penalty provisions. These concentrated on the exemption for certain named nonprofit contractors, with a few nonprofit entities not on the list (such as Oak Ridge Associated Universities) asking to be added.<sup>220</sup> There were no serious attempts to delete the penalty provisions or to modify them in other ways during this period. Finally, the "compromise" version of the bill taken to the House Rules Committee at the end of July by the Interior and Energy Committees added a new provision requiring DOE to "determine by rule whether nonprofit educational institutions should receive automatic remission of any [civil] penalty."

## **VI. More Recent Congressional Actions**

### **A. 1992 - Coverage for United States Enrichment Corporation**

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<sup>215</sup>134 Cong.Rec. S2310 (daily ed. Mar. 16, 1988).

<sup>216</sup>See 134 Cong. Rec. S2335 (daily ed. Mar. 16, 1988).

<sup>217</sup>It is significant that the Metzenbaum amendment was defeated, even though Senator Bumpers had further amended it by limiting any subrogation to the lesser of the "contract's award fee" or the limitation on liability (*i.e.*, about \$7 billion). See 134 Cong.Rec. S2325-S2329 (daily ed. Mar. 16, 1988).

<sup>218</sup>See 134 Cong.Rec. H6113-H6134 (daily ed. Aug. 2, 1988).

<sup>219</sup>See 134 Cong.Rec. S10929-S10935 (daily ed. Aug. 5, 1988).

<sup>220</sup>The House Science Committee was particularly adamant about modifying the nonprofit exemption provisions. See, *e.g.*, 134 Cong.Rec. H6124-H6128 (daily ed. Aug. 2, 1988)(statement of Rep. Lloyd). These objections were rejected on July 27, 1988 by the House Rules Committee, which sent the bill to the House floor with a "closed" rule, *i.e.* one allowing no floor amendments.



The Energy Policy Act of 1992 created the United States Enrichment Corporation (USEC) to conduct business as a self-financing corporation, and to lease DOE's uranium enrichment facilities, as needed.<sup>221</sup> In providing for the leasing of DOE's gaseous diffusion facilities at Paducah, Kentucky and Portsmouth, Ohio, Section 1403(f) of the 1992 Act specifically states that any such lease executed between DOE and USEC "shall be deemed to be a contract for the purposes of section 170d."<sup>222</sup> In other words, DOE is providing Price-Anderson indemnification to USEC for contractual activities under its Paducah and Portsmouth leases.<sup>223</sup>

## **B. 1996 Senate Bill**

On June 7, 1996, Senator Johnston introduced a bill (S. 1852<sup>224</sup>) to "reduce radiation injury litigation against DOE contractors." S. 1852 ("The Department of Energy Class Action Lawsuit Act") would have done three things: (i) made retroactive to cover pending lawsuits the 1988 Price-Anderson Amendments Act provision prohibiting punitive damages where the U.S. Government is providing indemnification,<sup>225</sup> (ii) eliminated class action lawsuits for "nonphysical injuries", and (iii) made medical monitoring by the Agency for Toxic Substances and Disease Registry under Superfund the exclusive remedy for claims against persons indemnified under the Price-Anderson contractor coverage. The medical monitoring provision was added at the suggestion of DOE to cover a remedy typically sought by radiation-injury plaintiffs in large cases, but it would not have applied if there were an "extraordinary nuclear occurrence." Section 5 of S. 1852 made it clear that the bill's provisions would have applied to pending lawsuits. No hearings on the bill were held.

## **C. 1998 DOE and NRC Reports to Congress**

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<sup>221</sup>42 U.S.C. §§2297 *et seq.* USEC now is in the process of being privatized.

<sup>222</sup>42 U.S.C. §2297h-5(f).

<sup>223</sup>The DOE-USEC lease commenced on July 1, 1993, and expires on June 30, 1999, unless renewed. Section 1608 of the 1992 Act provides Section 170 shall not apply to any NRC license for a uranium enrichment facility constructed after that provision's enactment. 42 U.S.C. §2297e-7. Thus, any new uranium enrichment facilities constructed by USEC will not be covered by the Price-Anderson Act.

<sup>224</sup>105th Cong., 2d Sess. (1996).

<sup>225</sup>*Cf. Crawford, supra* note 91 (finding the 1988 punitive damages provision (42 U.S.C. §2210s) did not apply with respect to claims arising between 1951 to 1985). *See, supra* notes 106-108 and accompanying text.

The 1988 Amendments provided that both DOE and NRC should submit to Congress by August 1, 1998 reports on the need to continue or modify the Price-Anderson Act again.<sup>226</sup> DOE recently has established an internal Task Force to draft its report; and, on December 31, 1997, published a Notice of Inquiry seeking public comments to assist in the preparation of the report.<sup>227</sup>

## **VII. Benefits of Price-Anderson Coverage**

It is important to recognize that general government authority to indemnify contractors preceded the Price-Anderson Act,<sup>228</sup> and presumably would continue to exist in the absence of

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<sup>226</sup>42 U.S.C. §2210p.

<sup>227</sup>62 Fed.Reg. 68272 (Dec. 31, 1997).

<sup>228</sup>For example, over the years, a few contractors of DOE and its predecessor agencies (AEC and ERDA) received special indemnity protection by use of Section 162 of the Atomic Energy Act of 1954, as amended. 42 U.S.C. §2202. Section 162 provides:

The President may, in advance, exempt any specific action of the Commission [now Department of Energy] in a particular matter from the provisions of law relating to contracts whenever he determines that such action is essential in the interest of the common defense and security.

Section 162 has enabled the President to approve DOE contracts containing "general indemnities" not subject to the availability of appropriated funds. In other words, Section 162 has been used to provide exemptions to the Anti-Deficiency Act. 31 U.S.C. §1341. Action was taken by seven different Presidents under Section 162 (or its predecessor, Section 12(b) of the Atomic Energy

Act of 1946) in connection with five different contracts that contained indemnity provisions without qualification as to the availability of appropriations. Presidential approval has been given: (1) by President Truman (on September 27, 1950) in connection with the DuPont contract for operation of the Savannah River Plant; (2) by President Eisenhower (on July 14, 1954) in connection with the aircraft nuclear propulsion program; (3) by President Eisenhower (on August 7, 1957) in connection with the Babcock & Wilcox contract for design and fabrication of the nuclear reactor for the nuclear ship *Savannah*; (4) by Presidents Truman, Eisenhower and Kennedy in connection with the General Electric Company contract for the operation of the Hanford Site; and, (5) by Presidents Johnson (on June 12, 1964 and December 19, 1968), Nixon (on December 31, 1973), Carter (in early January 1979) and Reagan (on September 30, 1983 and January 19, 1988) in connection with the AT&T Tech-

(continued...)

Price-Anderson.<sup>229</sup> Specific inclusion of contractors in the 1957 Act was an attempt to correct the deficiencies of contractor indemnification as it began under the MED, while furthering the broader goals and purposes of Price-Anderson, especially protection of the public.<sup>230</sup> As such, statutory contractor indemnification was seen at the time as desirable for several reasons that, as described, *infra*, are equally valid today.

#### A. Public Protection

First, protection of the public has been the principal purpose of the Price-Anderson Act. The statutory scheme of indemnification and/or insurance has been intended to ensure the availability to the public of adequate funds in the event of a catastrophic, yet unlikely, nuclear accident. Other benefits to the public include such features as emergency assistance payments, consolidation and prioritization of claims in one court, channeling of liability through the "omnibus" feature (permitting a more unified and efficient approach to processing and settlement of claims), and waivers of certain defenses in the event of a large accident (providing a type of "no-fault" coverage). If a very large accident were to happen, Congress recognized in 1957 (and again at the time of the 1988 Amendments) that a private company (such as the prime contractor or subcontractor) probably could not bear the costs alone. The company would be forced into bankruptcy, leaving injured claimants without compensation.<sup>231</sup> Price-Anderson was seen as a means of preventing this from happening by providing "a comprehensive, compensation-oriented system of liability insurance for Department of Energy contractors and Nuclear Regulatory

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(...continued)

nologies, Inc. (formerly Western Electric Co., Inc.)/Sandia Corporation contract for operation of Sandia National Laboratories. The Presidential approvals were in response to recommendations of the heads of AEC or DOE. The most recent use of Section 162 was by President Reagan on January 19, 1988 in connection with the last five-year extension (through September 30, 1993) of the AT&T/Sandia contract. All contracts subject to a Section 162 Presidential exemption have expired.

<sup>229</sup>See *1956 Hearings, supra* note 7, at 76-84; *1957 Hearings, supra* note 4, at 149-51, 176. Note, however, that a provision added in 1988 provides that, beginning 60 days after August 1988, §170d(1)(A) shall be "the exclusive means" of nuclear hazards indemnification for DOE contractors, including activities conducted under a contract containing Public Law 85-804 indemnification entered into during the 1987-1988 lapse. 42 U.S.C. §2210(d)(1)(B)(i)(I).

<sup>230</sup>See, e.g., *1957 Hearings, supra* note 4, at 176.

<sup>231</sup>See, e.g., *S.Rep. No. 296, supra* note 4, at 15, reprinted in [1957] U.S. Code Cong. & Ad. News 1816-17; *H.Rep. No. 435, supra* note 4, at 15; *1984 Columbia Study, supra* note 4, at 57-58; 103 Cong.Rec. H9560 (daily ed. July 1, 1957) (statement of Rep. Van Zandt).

Commission licensees operating nuclear facilities."<sup>232</sup> During consideration of the last extension, the Senate Energy Committee summarized this point as follows:

In general, failure to extend the Price-Anderson Act would result in substantially less protection for the public in the event of a nuclear incident. In the absence of the Act, compensation for victims of a nuclear incident would be less predictable, less timely, and potentially inadequate compared to the compensation that would be available under the current Price-Anderson system.<sup>233</sup>

At the same time, if the accident were so large as to exceed the statutory indemnity ceiling, Congress first recognized in 1957 it would be capable of legislating additional funds.<sup>234</sup> Indeed, the Price-Anderson Act specifically has provided since 1975 that, in the event of a nuclear incident involving damages in excess of the statutory limitation on liability, Congress will thoroughly review the particular incident and take whatever action is deemed necessary and appropriate to protect the public from the consequences of a disaster of such magnitude.<sup>235</sup>

#### B. Encourage Participation of Private Industry

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<sup>232</sup>1987 Senate Energy Committee Report, *supra* note 3, at 14, 16-18, reprinted in [1988] U.S. Code Cong. & Ad. News 1426, 1428-1430 (also noting the need for extending the Price-Anderson Act then was essentially the same as in 1957, *i.e.* the amount of private insurance available was insufficient and compensation to victims of a nuclear accident, in the absence of the Price-Anderson Act, therefore would be seriously limited). *See also* 1987 Senate Environment Committee Report, *supra* note 6, at 4, reprinted in [1988] U.S. Code Cong. & Ad. News 1479; 1987 House Science Committee Report, *supra* note 3, at 3; 1987 House Energy Committee Report, *supra* note 3, at 15, 17 (noting the House Energy Committee viewed the need to extend the Act as "urgent").

<sup>233</sup>1987 Senate Energy Committee Report, *supra* note 3, at 18, reprinted in [1988] U.S. Code Cong. & Ad. News 1426.

<sup>234</sup>*See, e.g., S.Rep. No. 296, supra* note 4, at 22, reprinted in 1957 U.S. Code Cong. & Ad. News 1823; *H.Rep. No. 435, supra* note 4, at 22.

<sup>235</sup>42 U.S.C. §2210(e)(2). This statutory provision was added by Act of December 31, 1975, Pub. L. No. 94-197, §6, 89 Stat. 1111. *See also Duke Power Co. v. Carolina Environmental Study Group*, 438 U.S. 59, 85-86 (1978) (discussing this provision in the decision that unanimously upheld the constitutionality of the Act's limitation on liability); and 1987 Senate Energy Committee Report, *supra* note 3, at 14.

Although government contractors may have received indemnification before Price-Anderson, the types of coverage varied with unpredictable results. Consequently, potential contractors generally were deterred from associating with nuclear development, thereby deviating from the goals of the 1954 Atomic Energy Act to encourage such activities.<sup>236</sup> Several industrial spokesman felt so strongly that at the time of the 1956 hearings, they saw no alternative but to recommend that work on various projects be stopped as soon as possible if appropriate legislation was not passed by the Eighty-Fifth Congress. Several contractors already had entered into a number of contracts, both large and small, that were negotiated with the view that the work would have to stop at some time if adequate liability protection could not be obtained.<sup>237</sup> This point was raised again in the 1957 hearings.<sup>238</sup> And, at least one spokesman indicated that, pending legislation, his company had gone ahead in good faith with AEC contract work on every project despite lack of protection for subcontractors in the "hope or expectation that legislation would cover work presently in process", adding that the same applied to his company's suppliers.<sup>239</sup> Price-Anderson was intended to eliminate these liability problems and to encourage private industry to participate in nuclear development, including Government activities. DOE contractors strenuously reiterated the same point prior to the 1988 extension, saying they would decline to work for DOE without nuclear liability protection of the type afforded by the Price-Anderson Act. Alternatives would be using Federal employees or possibly less responsible, less competent contractors.<sup>240</sup>

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<sup>236</sup>See, e.g., *1957 Hearings*, *supra* note 4, at 147, 176.

<sup>237</sup>See, e.g., *1956 Hearings*, *supra* note 7, at 105, 116. See also *Atomic Industrial Forum, Extension of the Price-Anderson Indemnification System (May 1965)* at 5; and, *1966 Hearings*, *supra* note 19, at 230.

<sup>238</sup>See, e.g., *1957 Hearings*, *supra* note 4, at 148.

<sup>239</sup>*Id.*, at 287.

<sup>240</sup>The 1987 Senate Energy Committee Report recognized the possibility some DOE contractors would discontinue work in DOE's nuclear activities altogether if the Price-Anderson system were not extended. *1987 Senate Energy Committee Report*, *supra* note 3, at 17, 34-35, reprinted in [1988] U.S. Code Cong. & Ad. News 1429, 1446-1447. In fact, the Committee noted, in that event, Federal nuclear activities would continue, but they would likely be carried out by Federal employees or possibly by less responsible, less competent contractors. If DOE's nuclear activities were to be carried out by Federal employees, victims of a nuclear accident could only attempt to obtain compensation by filing suit against the Federal Government under the Federal Tort Claims Act. *Id.*

### C. Extend Coverage Through Uniform Contracts

Prior to the enactment of Price-Anderson, indemnity clauses in AEC contractor agreements were generally broad in scope, but not all contracts contained such provisions.<sup>241</sup> Additionally, there often was an ill-defined exemption to this broad coverage for the contractors' "willful misconduct" or if "bad faith" caused losses, expenses, and damages.<sup>242</sup> This exception at times extended to contractor representatives having "general supervisory and direction of the performance of the work". Also, "intermediate" company officials had been included under contract exceptions.

Although contractor indemnity was often broad, there existed a number of contract clauses with narrow scopes of coverage. This was a result of the *ad hoc* negotiations between private industry and the government. Many contracts varied in scope and limitation of coverage. Thus, one particular situation potentially could have resulted in coverage for some contractors and not for others.

Price-Anderson rendered coverage more uniform, and, since the 1988 Amendments, has been mandatory for DOE contractors (as it has been for power plants since 1957). For example, the Act currently provides coverage for any nuclear accident if it occurs at the contract location or takes place at other locations and arises in the course of contract performance by any person for whom the contractor must assume responsibility. Also, protection is extended to incidents that arise out of or in the course of transportation of source, special nuclear, or by-product material to or from a contract location or an incident that involves items produced or delivered under the contract. After a thorough examination of the issue in the last extension, Congress, as it had in 1957, declined to make an exclusion for damages in case of "gross negligence," "willful misconduct" or "bad faith" of any contractor representatives.<sup>243</sup>

### D. Extend Uniform Coverage to Different Contractor Tiers

A typical contractor-subcontractor relationship could potentially involve many different companies. Before the passage of Price-Anderson, indemnity agreements had to be negotiated at each tier of the contractor scheme. If construction and development of several atomic facilities

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<sup>241</sup>1956 Hearings, *supra* note 7, at 77-85.

<sup>242</sup>*Id.*

<sup>243</sup>S.Rep. No. 296, *supra* note 4, at 21, reprinted in [1957] U.S. Code Cong. & Ad. News 1823; H.Rep. No. 435, *supra* note 4, at 21.

occurred, the number of contractors and subcontractors that faced possible risks due to a nuclear mishap could reach into the "thousands".<sup>244</sup>

Moreover, the different scopes of coverage caused by contract negotiations at each tier could result in haphazard protection of the public. Price-Anderson corrected this deficiency, ensuring the availability of funds to cover damages and creating a uniform level of coverage among contractors, subcontractors, and other suppliers.<sup>245</sup> The Price-Anderson indemnity agreements cover "anyone liable", not just the entity with whom the indemnity agreement is executed.<sup>246</sup> This is the so-called "omnibus" feature of the system.<sup>247</sup> In addition, Price-Anderson reduced the risk to bring it into proportion to the contractor's initial investment and volume of business.

#### **E. Limitation on Funds for Indemnification**

During the pre-Price-Anderson coverage period, the AEC negotiated indemnity contracts with individual contractors. The coverage, however, was subject to the availability of funds.<sup>248</sup>

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<sup>244</sup>1961 *Hearings*, *supra* note 7, at 49; 103 Cong. Rec. S13724 (daily ed. August 16, 1957) (statement by Sen. Anderson); 1983 *DOE Study*, *supra* note 6, at 1 (there then were over 100 DOE contracts containing Price-Anderson protecting about 50 prime contractors and 70,000 subcontractors and suppliers).

<sup>245</sup>*See, e.g., 1956 Hearings*, *supra* note 7, at 76-85.

<sup>246</sup>*See* Section 11t, 42 U.S.C. §2014t (defining "person indemnified"). *See also* S.Rep. No. 16-77, *supra*, note 27, *reprinted in* [1962] U.S. Code Cong. & Ad. News 2207-22.

<sup>247</sup>The breadth of Price-Anderson's "omnibus" coverage is illustrated by an often-quoted example in the legislative history of the Act:

In the [1957] hearings, the question of protecting the public was raised where some unusual incident, such as negligence in maintaining an airplane motor, should cause an airplane to crash into a reactor and thereby cause damage to the public. Under this bill the public is protected and the airplane company can also take advantage of the indemnification and other proceedings. S.Rep. No. 296, 85th Cong., 1st Sess., [1957] U.S. Code Cong. & Ad. News 1818.

<sup>248</sup>*Id.* at 162, 176; 1961 *Hearings*, *supra* note 7, at 16-17; 111 Cong.Rec. H23168 (daily ed. September 16, 1965) (statement of Rep. Morris). A few of the pre-Price-Anderson indemnity agreements (for example, those with the operating contractors of the AEC's

(continued...)

As a result, contractors and the public potentially could be left unprotected. Price-Anderson was intended to resolve this problem by providing and guaranteeing compensation up to the liability ceiling. DOE now is authorized under Section 170j of the Price-Anderson Act to enter into contracts in advance of appropriations. Also, DOE may incur obligations without regard to any limitation on the availability of funds. This feature allows DOE to act quickly, without prior consent from Congress for each contractor activity.

## **VIII. Conclusions**

Contractor indemnification against the risks of nuclear incidents has been provided by the U.S. Government since the early 1940s. Contractor coverage prior to the Price-Anderson Act, however, often was inconsistent, subject to the individual contract idiosyncracies, inapplicable to subcontractors, and subject to the availability of funds. Price-Anderson was carefully designed to correct many of these deficiencies by providing a uniform system of contractor indemnification and public protection. The coverage now provides horizontal protection between contractors and vertical protection between contractors, subcontractors and other suppliers. It protects the public with a large source of funds and important features, such as consolidation and prioritization of claims in a single court. Enhanced criminal and civil penalty provisions were added in 1988 to further encourage "contractor accountability" after Congress rejected any subrogation provision. After over forty years of indemnification, private industry has maintained a large role in assisting the Government in its own nuclear activities without significant damage or injury to the public and with only one substantial settlement (at Fernald in 1989). In other words, Price-Anderson contractor indemnification is a system that has worked well.

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(...continued)

production facilities) were, under the special authority of Section 162 of the Atomic Energy Act of 1954, 42 U.S.C. §2202, not made subject to the availability of funds. But such indemnification arrangements were entered into only in exceptional cases. *See 1974 AEC Staff Study, supra* note 7, at 31. In the absence of Price-Anderson, the Anti-Deficiency Act, 31 U.S.C. §1341, would apply to DOE nuclear contracts. That statute prohibits contracting officers from incurring any financial obligations over and above those authorized for a particular year and in advance by Congress. *See also* Adequacy of Appropriations Act, 41 U.S.C. §11.



[Text of January 21, 1998 Letter from American Nuclear Insurers]

[ANI AMERICAN  
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INSURERS

UNDERWRITING DEPARTMENT  
John L. Quattrocchi, Senior Vice President

January 21, 1998

Mr. Omer F. Brown, II  
Harmon & Wilmot, L.L.P.  
1010 Vermont Avenue, N.W.  
Suite 810  
Washington, D.C. 20005

**Re: DOE Notice of Inquiry**

Dear Mr. Brown:

On December 31, 1997, the DOE published in the Federal Register a Notice of Inquiry concerning the preparation of its Report to Congress on the renewal of Price-Anderson. One of the DOE's questions (Question 11) dealt with the availability of private insurance for DOE contractors. To the best of my knowledge, ANI is currently the sole source of nuclear liability insurance in the U.S. In that context, I thought the Energy Contractors' Price-Anderson Group might be interested in some of our thoughts on the issue of insurance.

The DOE has always had the option of requiring its contractors to maintain financial protection below the level at which indemnity is provided. It has opted not to require any underlying financial protection because the cost of such protection would be passed through to the government under the contract. Instead, the government has elected to self-insure the risk. Thus, indemnity under 170(d) has applied to contractors and other "persons indemnified" on a "first dollar" basis. In view of the position taken by the government over more than forty years, it is unclear why DOE would consider requiring underlying insurance at this late stage.

In any event, if requested, ANI would consider writing nuclear liability insurance at DOE facilities at limits up to \$200 million - the maximum liability limit we are currently able to write at any one facility. However, we are not in a position to guarantee that coverage would actually be written. Any agreement to provide insurance would depend on a careful engineering evaluation of the facility, the activities performed, and the DOE's agreement to implement recommendations that may be offered.

Town Center, Suite 300S/ 29 South Main Street/ West Hartford, CT 06107-2430/ (860) 561-3433 -  
FAX (860) 561-4655

If insurance is written, premiums would be based on such factors as type of facility insured, nature of the activities performed, type and quantities of nuclear material handled, location of the facility, qualifications of site management, quality of safety-related programs and operating [page 2] history. Although we cannot provide any definitive numbers, annual per policy premiums might fall in the range of \$500,000-\$2 million at policy limits of \$200 million. These premiums would, of course, be subject to change over time.

I might add that it would be much easier for us to write nuclear liability insurance for new DOE facilities than for existing facilities. For facilities which have, in some cases, operated for decades, we would have obvious concerns about picking up liability for old exposures which may well preclude insurability.

I would also note that the nuclear liability policy written by ANI provides coverage only for the insured's liability for tort damages because of offsite bodily injury or property damage caused by the nuclear energy hazard. Among other things, the policy specifically excludes coverage for

- ! radiation tort claims of workers which can be covered under a separate industry-wide policy issued by ANI subject to a shared industry-wide limit of \$200 million;
- ! bodily injury or property damage due to manufacturing, handling or use of any nuclear weapon or other instrument of war;
- ! property damage to any property at the insured facility;
- ! on-site cleanup costs;
- ! environmental cleanup costs - i.e., those costs arising out of a governmental decree or order to clean up, neutralize or contain contamination of the environment.

The exclusions I've noted are highlighted and paraphrased for general information purposes only. All policy terms, conditions and exclusions should be carefully read in order to determine the scope of coverage afforded by the policy.

I hope this information is helpful to the review process. In the final analysis, even if insurance for DOE sites can be written, it could not replace the roughly \$9 billion of indemnity granted under 170(d) since we are only able to write liability limits up to \$200 million at this time.

Sincerely,  
/s/ John L. Quattrocchi  
John L. Quattrocchi  
Senior Vice President, Underwriting

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