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1	HIGH LEVEL NUCLEAR WASTE DISPOSAL
2	1998 GENERAL SESSION
3	STATE OF UTAH
4	Sponsor: Craig A. Peterson
5	AN ACT RELATING TO THE ENVIRONMENT AND HEALTH; PROVIDING LEGISLATIVE
6	INTENT; ESTABLISHING PROCEDURES, REQUIREMENTS, AND FEES FOR
7	LICENSURE TO OPERATE A HIGH LEVEL NUCLEAR WASTE FACILITY OR A
8	GREATER THAN CLASS C RADIOACTIVE WASTE FACILITY IN THE STATE;
9	REQUIRING CERTAIN SAFETY ASSURANCES IN ORDER TO TRANSPORT THESE
10	WASTES WITHIN THE STATE; AND SPECIFYING REQUIREMENTS REGARDING
11	TRANSPORTATION, SURETY FOR MAINTENANCE OF A FACILITY, AND
12	FINANCIAL RESPONSIBILITY FOR ANY RELEASES OF THE NUCLEAR WASTE.
13	This act affects sections of Utah Code Annotated 1953 as follows:
14	AMENDS:
15	19-3-301, as last amended by Chapter 227, Laws of Utah 1993
16	ENACTS:
17	<b>19-3-302</b> , Utah Code Annotated 1953
18	19-3-303, Utah Code Annotated 1953
19	<b>19-3-304</b> , Utah Code Annotated 1953
20	<b>19-3-305</b> , Utah Code Annotated 1953
21	<b>19-3-306</b> , Utah Code Annotated 1953
22	<b>19-3-307</b> , Utah Code Annotated 1953
23	19-3-308, Utah Code Annotated 1953
24	19-3-309, Utah Code Annotated 1953
25	<b>19-3-310</b> , Utah Code Annotated 1953
26	<b>19-3-311</b> , Utah Code Annotated 1953
27	19-3-312 Utah Code Annotated 1953

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S.B. 196

1	<b>19-3-313</b> , Utah Code Annotated 1953
2	<b>19-3-314</b> , Utah Code Annotated 1953
3	<b>19-3-315</b> , Utah Code Annotated 1953
4	<b>19-3-316</b> , Utah Code Annotated 1953
5	<b>19-3-317</b> , Utah Code Annotated 1953
6	Be it enacted by the Legislature of the state of Utah:
7	Section 1. Section 19-3-301 is amended to read:
8	19-3-301. Restrictions on nuclear waste placement in state.
9	The state [shall] may not approve the placement, including transfer, storage, decay in
10	storage, treatment, or disposal, in Utah of high level nuclear waste or greater than class C
11	radioactive waste unless the governor, after consultation with the county executive and county
12	legislative body of the affected county and with concurrence of the Legislature, specifically
13	approves [such] the placement as provided in this part.
14	Section 2. Section 19-3-302 is enacted to read:
15	19-3-302. Legislative intent.
16	(1) The state of Utah enacts this part to regulate transportation, transfer, storage, decay in
17	storage, treatment, and disposal of any high level nuclear waste and greater than class C
18	radioactive waste in Utah, thereby asserting and protecting the state's interests in environmental
19	and economic resources consistent with 42 U.S.C.A. 2011 et seq., Atomic Energy Act and 42
20	U.S.C.A. 10101 et seq., Nuclear Waste Policy Act.
21	(2) Neither the Atomic Energy Act nor the Nuclear Waste Policy Act provides for siting
22	a large privately owned high level nuclear waste transfer, storage, decay in storage, or treatment
23	facility away from the vicinity of the reactors. The Atomic Energy Act and the Nuclear Waste
24	Policy Act specifically define authorized storage and disposal programs and activities. The state
25	of Utah in enacting this part is not preempted by federal law, since any proposed facilities that
26	would be sited in Utah are not contemplated or authorized by federal law and, in any circumstance,
27	this part is not contrary to or inconsistent with federal law or Congressional intent.
28	(3) The state of Utah has environmental and economic interests which do not involve
29	nuclear safety regulation, and which must be considered and complied with in siting a high level
30	nuclear waste or greater than Class C radioactive waste transfer, storage, decay in storage,
31	treatment, or disposal facility and in transporting these wastes in the state.

1 (4) An additional primary purpose of this part is to ensure protection of the state from 2 nonradiological hazards associated with any waste transportation, transfer, storage, decay in 3 storage, treatment, or disposal. 4 (5) The state recognizes the sovereign rights of Indian tribes within the state of Utah. 5 However, any proposed transfer, storage, decay in storage, treatment, or disposal facility located 6 on a reservation which directly affects and impacts state interests by creating off-reservation 7 effects such as potential or actual degradation of soils and groundwater, potential or actual 8 contamination of surface water, pollution of the ambient air, emergency planning costs, impacts 9 on development, agriculture, and ranching, and increased transportation activity, is subject to state 10 jurisdiction. 11 (6) There is no tradition of regulation by the Indian tribes in Utah of high level nuclear 12 waste or higher than class C radioactive waste. The state does have a long history of regulation 13 of radioactive sources and natural resources and in the transfer, storage, treatment, and 14 transportation of materials and wastes throughout the state. The state finds that its interests are 15 even greater when nonmembers of an Indian tribe propose to locate a facility on tribal trust lands 16 primarily to avoid state regulation and state authorities under federal law. 17 (7) (a) This part is not intended to modify existing state requirements for obtaining environmental approvals, permits, and licenses, including surface and groundwater permits and 18 air quality permits, when the permits are necessary under state and federal law to construct and 19 20 operate a high level nuclear waste or greater than class C radioactive waste transfer, storage, decay 21 in storage, treatment, or disposal facility. 22 (b) Any source of air pollution proposed to be located within the state, including sources 23 located within the boundaries of an Indian reservation, which will potentially or actually have a 24 direct and significant impact on ambient air within the state, is required to obtain an approval order 25 and permit from the state under Section 19-2-108. 26 (c) Any facility which will potentially or actually have a significant impact on the state's surface or groundwater resources is required to obtain a permit under Section 19-5-107 even if 27 28 located within the boundaries of an Indian reservation. 29 (8) The state finds that the transportation, transfer, storage, decay in storage, treatment, 30 and disposal of high level nuclear waste and greater than class C radioactive waste within the state 31 is an ultra-hazardous activity which carries with it the risk that any release of waste may result in

1	enormous economic and human injury.
2	Section 3. Section 19-3-303 is enacted to read:
3	<u>19-3-303.</u> Definitions.
4	As used in this part:
5	(1) "Greater than class C radioactive waste" means low-level radioactive waste that has
6	higher concentrations of specific radionuclides than allowed for class C waste.
7	(2) "High level nuclear waste" has the same meaning as in Section 19-3-102.
8	(3) "Rule" means a rule made by the department under Title 63, Chapter 46a, Utah
9	Administrative Rulemaking Act.
10	(4) "Storage facility" means any facility which stores, holds, or otherwise provides for the
11	emplacement of waste regardless of the intent to recover that waste for subsequent use, processing
12	or disposal.
13	(5) "Transfer facility" means any facility which transfers waste from and between
14	transportation modes, vehicles, cars, or other units, and includes rail terminals and intermodal
15	transfer points.
16	(6) "Waste" or "wastes" means high level nuclear waste and greater than class C
17	radioactive waste.
18	Section 4. Section 19-3-304 is enacted to read:
19	19-3-304. Licensing and approval by governor and Legislature Powers and duties
20	of the department.
21	(1) (a) A person may not construct or operate a waste transfer, storage, decay in storage,
22	treatment, or disposal facility within the exterior boundaries of the state without applying for and
23	receiving a construction and operating license from the state Department of Environmental Quality
24	and also obtaining approval from the Legislature and the governor.
25	(b) The Department of Environmental Quality may issue the license, and the Legislature
26	and the governor may approve the license, only upon finding the requirements and standards of
27	this part have been met.
28	(2) The department shall by rule establish the procedures and forms required to submit an
29	application for a construction and operating license under this part.
30	(3) The department may make rules implementing this part as necessary for the protection
31	of the public health and the environment, including:

1	(a) rules for safe and proper construction, installation, repair, use, and operation of waste
2	transfer, storage, decay in storage, treatment, and disposal facilities;
3	(b) rules governing prevention of and responsibility for costs incurred regarding accidents
4	that may occur in conjunction with the operation of the facilities; and
5	(c) rules providing for disciplinary action against the license upon violation of any of the
6	licensure requirements under this part or rules made under this part.
7	Section 5. Section 19-3-305 is enacted to read:
8	19-3-305. Application for license.
9	The application for a construction and operating license shall contain information required
10	by department rules, which shall include:
11	(1) results of studies adequate to:
12	(a) identify the presence of any groundwater aquifers in the area of the proposed site;
13	(b) assess the quality of the groundwater of all aquifers identified in the area of the
14	proposed site;
15	(c) provide reports on the monitoring of vadose zone and other near surface groundwater;
16	(d) provide reports on hydraulic conductivity tests; and
17	(e) provide any other information necessary to estimate adequately the groundwater travel
18	distance;
19	(2) identification of transportation routes and transportation plans within the state and
20	demonstration of compliance with federal, state, and local transportation requirements;
21	(3) estimates of the composition, quantities, and concentrations of waste to be generated
22	by the activities covered by the license;
23	(4) the environmental, social, and economic impact of the facility in the area of the
24	proposed facility and on the state as a whole;
25	(5) detailed engineering plans and specifications for the construction and operation of the
26	facility and for the closure of the facility;
27	(6) detailed cost estimates and funding sources for construction, operation, and closure of
28	the facility;
29	(7) a security plan that includes a detailed description of security measures that would be
30	installed in and around the facility;
31	(8) a detailed description of site suitability, including a description of the geologic,

1	geochemical, geotechnical, hydrologic, ecologic, archaeologic, meteorologic, climatologic, and
2	biotic features of the site and vicinity;
3	(9) specific identification of:
4	(a) the applicant, the wastes to be accepted, the sources of waste, and the owners and
5	operators of the facility; and
6	(b) the persons or entities having legal responsibility for the facility and wastes;
7	(10) quantitative and qualitative environmental and health risk assessments for all
8	proposed activities, including transfer, storage, and transportation of wastes;
9	(11) technical qualifications, including training and experience of the applicant, staff, and
10	personnel who are to engage in the proposed activities;
11	(12) a quality assurance program, radiation safety program, and environmental monitoring
12	program;
13	(13) a regional emergency plan for an area surrounding the facility having at least a 75
14	mile radius, but which may be greater, if required by department rule; and
15	(14) any other information and monitoring the department determines necessary to insure
16	the protection of the public health and the environment.
17	Section 6. Section 19-3-306 is enacted to read:
18	19-3-306. Information and findings for approval by the department.
19	The department may not issue a construction and operating license unless information in
20	the application:
21	(1) demonstrates the availability and adequacy of emergency services, including medical,
22	security, and fire response, and environmental cleanup capabilities both at and in the region of the
23	proposed site and for areas involved in the transport of wastes within the state;
24	(2) establishes financial assurance for operation and closure of the facility and for
25	responding to emergency conditions in transportation and at the facility as required by department
26	rules, including proof the applicant:
27	(a) possesses substantial resources that are sufficient to respond to any reasonably
28	foreseeable injury or loss resulting from operation of the facility; and
29	(b) will maintain these resources throughout the term of the facility;
30	(3) provides evidence the wastes will not cause or contribute to an increase in mortality,
31	an increase in illness, or pose a present or potential hazard to human health or the environment;

1	(4) provides evidence the personnel employed at the facility have appropriate and
2	sufficient education and training for the safe and adequate handling of the wastes;
3	(5) demonstrates the public benefits of the proposed facility, including the lack of other
4	available sites or methods for the management of the waste that would be less detrimental to the
5	public health or safety or to the quality of the environment;
6	(6) demonstrates the technical feasibility of the proposed waste management technology;
7	(7) demonstrates conformance with federal laws, regulations, and guidelines for a waste
8	facility;
9	(8) demonstrates conclusively that any facility is temporary and provides identified plans
10	and alternatives for closure of the facility with an enforceable schedule and identified dates for
11	closure, including evidence that:
12	(a) an identified party has irrevocably agreed to accept the waste at the end of the
13	temporary storage period; and
14	(b) the waste will be moved to another facility;
15	(9) demonstrates that:
16	(a) the applicant is not a limited liability company, limited partnership, or other entity with
17	limited liability; and
18	(b) the applicant and its officers and directors and those principals or other entities that
19	are participating in and associated with the applicant regarding the facility are willing to accept
20	unlimited strict liability, consistent with federal law, for any financial losses or human losses or
21	injuries resulting from operation of any proposed facility;
22	(10) provides evidence the applicant has posted a cash bond in the amount of at least two
23	billion dollars or in a greater amount as determined by department rule to be necessary to
24	adequately respond to any reasonably foreseeable releases or losses, or the closure of the facility;
25	(11) provides evidence the applicant and its officers and directors, the owners or entities
26	responsible for the generation of the waste, principals, and any other entities participating in or
27	associated with the applicant, including landowners, lessors, and contractors, consent in writing
28	to the jurisdiction of the state courts of Utah for any claims, damages, private rights of action, state
29	enforcement actions, or other proceedings relating to the construction, operation, and compliance
30	of the proposed facility; and
31	(12) demonstrates that any person or entity which sends wastes to a facility shall remain

1	the owner of and responsible for the waste and its ultimate disposal and is willing to accept
2	unlimited, strict liability, consistent with federal law, for any financial or human losses, liabilities,
3	or injuries resulting from the wastes for the entire time period the waste is at the facility.
4	Section 7. Section 19-3-307 is enacted to read:
5	<u>19-3-307.</u> Siting criteria.
6	(1) The department may not issue a construction and operating license to any waste
7	transfer, storage, decay in storage, treatment, or disposal facility unless the facility location meets
8	the siting criteria under Subsection (2).
9	(2) The facility may not be located:
10	(a) within or underlain by:
11	(i) national, state, or county parks; monuments or recreation areas; designated wilderness
12	or wilderness study areas; or wild and scenic river areas;
13	(ii) ecologically or scientifically significant natural areas, including wildlife management
14	areas and habitats for listed or proposed endangered species as designated by federal law;
15	(iii) 100-year flood plains;
16	(iv) areas 200 feet from Holocene faults;
17	(v) underground mines, salt domes, or salt beds;
18	(vi) dam failure flood areas;
19	(vii) areas subject to landslide, mud flow, or other earth movement, unless adverse impacts
20	can be mitigated;
21	(viii) farmlands classified or evaluated as "prime," "unique," or of "statewide importance"
22	by the U.S. Department of Agricultural Soil Conservation Service under the Prime Farmland
23	Protection Act;
24	(ix) areas within five miles of existing permanent dwellings, residential areas, or other
25	habitable structures, including schools, churches, or historic structures;
26	(x) areas within five miles of surface waters, including intermittent streams, perennial
27	streams, rivers, lakes, reservoirs, and wetlands;
28	(xi) areas within 1,000 feet of archeological sites regarding which adverse impacts cannot
29	reasonably be mitigated;
30	(xii) recharge zones of aquifers containing groundwater which has a total dissolved solids
31	content of less than 10 000 mg/l· or

1	(xiii) drinking water source protection areas;
2	(b) in areas:
3	(i) above or underlain by aquifers that:
4	(A) contain groundwater which has a total dissolved solids content of less than 500 mg/l;
5	<u>and</u>
6	(B) do not exceed state groundwater standards for pollutants;
7	(ii) above or underlain by aquifers containing groundwater which has a total dissolved
8	solids content between 3,000 and 10,000 mg/l, when the distance from the surface to the
9	groundwater is less than 100 feet;
10	(iii) of extensive withdrawal of water, gas, or oil;
11	(iv) above or underlain by weak and unstable soils, including soils that lose their ability
12	to support foundations as a result of hydrocompaction, expansion, or shrinkage;
13	(v) above or underlain by karst terrains; or
14	(vi) where air space use and ground transportation routes present incompatible risks and
15	uses; or
16	(c) within a distance to existing drinking water wells and watersheds for public water
17	supplies of five years groundwater travel time plus 1,000 feet.
18	(3) An applicant for a license may request from the department an exemption from any of
19	the siting criteria stated in this section upon demonstration that the modification would be
20	protective of and have no adverse impacts on the public health and the environment.
21	Section 8. Section 19-3-308 is enacted to read:
22	19-3-308. Application fee and annual fees.
23	(1) (a) Any application for a waste transfer, storage, decay in storage, treatment, or
24	disposal facility shall be accompanied by an initial fee of \$5,000,000.
25	(b) The applicant shall subsequently pay an additional fee to cover the costs to the state
26	associated with review of the application, including costs to the state and the state's contractors for
27	permitting, technical, administrative, legal, safety, and emergency response reviews, planning,
28	training, infrastructure, and other impact analyses, studies, and services required to evaluate a
29	proposed facility.
30	(2) For the purpose of funding the state oversight and inspection of any waste transfer,
31	storage, decay in storage, treatment, or disposal facility, and to establish state infrastructure,

1	including, but not limited to providing for state Department of Environmental Quality, state
2	Department of Transportation, state Department of Public Safety, and other state agencies'
3	technical, administrative, legal, infrastructure, maintenance, training, safety, socio-economic, law
4	enforcement, and emergency resources necessary to respond to these facilities, the owner or
5	operator shall pay to the state a fee as established by department rule under Section 63-38-3.2, to
6	be assessed:
7	(a) per ton of storage cask and high level nuclear waste per year for storage, decay in
8	storage, treatment, or disposal of high level nuclear waste;
9	(b) per ton of transportation cask and high level nuclear waste for each transfer of high
10	level nuclear waste;
11	(c) per ton of storage cask and greater than class C radioactive waste for the storage, decay
12	in storage, treatment, or disposal of greater than class C radioactive waste; and
13	(d) per ton of transportation cask and greater than class C radioactive waste for each
14	transfer of greater than class C radioactive waste.
15	(3) Funds collected under Subsection (2) shall be placed in the Nuclear Waste Facility
16	Oversight Restricted Account, created in Section 19-3-309.
17	(4) The owner or operator of the facility shall pay the fees imposed under this section to
18	the department on or before the 15th day of the month following the month in which the fee
19	accrued.
20	(5) Annual fees due under this part accrue on July 1 of each year and shall be paid to the
21	department by July 15 of that year.
22	Section 9. Section 19-3-309 is enacted to read:
23	19-3-309. Restricted account.
24	(1) There is created within the General Fund a restricted account known as the "Nuclear
25	Waste Facility Oversight Account."
26	(2) (a) The account shall be funded from the fees imposed under this part.
27	(b) The department shall deposit all fees collected under this part in the account.
28	(c) The funds in the account shall be used to carry out the department's duties under this
29	<u>part.</u>
30	(d) The account shall earn interest, which shall be deposited in the account.
31	Section 10. Section 19-3-310 is enacted to read:

1	19-3-310. Benefits agreement.
2	(1) The department may not issue a construction and operating license under this part
3	unless the applicant has entered into a benefits agreement with the department which is sufficient
4	to offset adverse environmental, public health, social, and economic impacts to the state as a
5	whole, and also specifically to the local area in which the facility is to be located.
6	(2) (a) The benefits agreement shall be attached to and made part of the terms of any
7	license for the facility.
8	(b) Failure to adhere to the benefits agreement is a ground for the department to take
9	enforcement action against the license, including permanent revocation of the license.
10	(3) This part may not be construed or interpreted to affect the rights of any person or entity
11	to brings claims against or reach agreements with the applicant for impacts from the facility
12	independent of the benefits agreement.
13	Section 11. Section 19-3-311 is enacted to read:
14	19-3-311. Length of license.
15	(1) Any construction and operating license shall be issued for a term established by
16	department rule, but the term may not be longer than 20 years.
17	(2) The term of the license may be extended beyond 20 years only by approval of the
18	department, the Legislature, and the governor.
19	Section 12. Section 19-3-312 is enacted to read:
20	19-3-312. Enforcement Penalties.
21	(1) When the department or the governor has probable cause to believe a person is
22	violating or is about to violate any provision of this part, the department or the governor shall
23	direct the state attorney general to apply to the appropriate court for an order enjoining the person
24	from engaging in or continuing to engage in the activity.
25	(2) In addition to being subject to injunctive relief, any person who violates any provision
26	of this part is subject to a civil penalty of up to \$10,000 per day for each violation.
27	(3) Any person who knowingly violates a provision of this part is guilty of a class A
28	misdemeanor and subject to a fine of up to \$10,000 per day.
29	Section 13. Section 19-3-313 is enacted to read:
30	<u>19-3-313.</u> Reciprocity.
31	Waste may not be transported into and transferred, stored, decayed in storage, treated, or

1	disposed of in the state if the state of origin of the waste or the state in which the waste was
2	generated prohibits or limits similar actions within its own boundaries.
3	Section 14. Section 19-3-314 is enacted to read:
4	19-3-314. Local jurisdiction.
5	This part does not preclude any political subdivision of the state from establishing
6	additional requirements under applicable state and federal law.
7	Section 15. Section 19-3-315 is enacted to read:
8	19-3-315. Transportation requirements.
9	(1) A person may not transport wastes in the state, including on highways, roads, rail, by
10	air, or otherwise, without:
11	(a) having received approval from the state Department of Transportation; and
12	(b) having demonstrated compliance with rules of the state Department of Transportation.
13	(2) The Department of Transportation may:
14	(a) make rules requiring a transport and route approval permit, weight restrictions, tracking
15	systems, and state escort; and
16	(b) assess appropriate fees as established under Section 63-38-3.2 for each shipment of
17	waste, consistent with the requirements and limitations of federal law.
18	(3) The Department of Environmental Quality shall establish any other transportation rules
19	as necessary to protect the public health, safety, and environment.
20	Section 16. Section 19-3-316 is enacted to read:
21	<u>19-3-316.</u> Cost recovery.
22	The owner or transporter or any person in possession of waste is liable, consistent with the
23	provisions of federal law, for any expense. damages, or injury incurred by the state, its political
24	subdivisions, or any person as a result of a release of the waste.
25	Section 17. Section 19-3-317 is enacted to read:
26	<u>19-3-317.</u> Severability.
27	If any provision of this part is held to be invalid, unconstitutional, or otherwise held to be
28	inconsistent with law, the remainder of this part is not affected and remains in full force.

## Legislative Review Note as of 2-12-98 3:48 PM

A limited legal review of this bill raises no obvious constitutional or statutory concerns.

Office of Legislative Research and General Counsel