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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

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Before the Atomic	Safety ar	nd Licensing Board	OFFICE OF SECRETARY RULE CAKINGS AND
In the Matter of)		ADJUDICATIONS STAFF
PRIVATE FUEL STORAGE L.L.C.)	Docket No. 72-22	
(Private Fuel Storage Facility))	ASLBP No. 97-732-	02-ISFSI

APPLICANT'S MOTION FOR SUMMARY DISPOSITION OF CONTENTION SUWA B – RAILROAD ALIGNMENT ALTERNATIVES

Applicant Private Fuel Storage, L.L.C. ("Applicant" or "PFS") moves for summary disposition of Southern Utah Wilderness Alliance ("SUWA") Contention B—Railroad Alignment Alternatives ("SUWA B") pursuant to 10 C.F.R. § 2.749. Summary disposition is warranted on the grounds that there exists no genuine issue as to any material fact relevant to the contention and PFS is entitled to a decision as a matter of law. This motion is supported by a statement of material facts, the declarations of John Donnell, Douglas Hayes, and Susan Davis, and excerpts from the transcript of the deposition of Jim Catlin.

I. STATEMENT OF THE ISSUE

Contention SUWA B, as admitted, asserts that:

The License Application Amendment fails to develop and analyze a meaningful range of alternatives to the Low Corridor Rail Spur and the associated fire buffer zone that will preserve the wilderness character and the potential wilderness designation of a tract of roadless Bureau of Land Management (BLM) land — the North Cedar Mountains — which it crosses.

Private Fuel Storage, L.L.C. (Independent Spent Fuel Storage Installation), LBP-99-3, 49 NRC 40, 53, aff'd, CLI-99-10, 49 NRC 318 (1999). The contention was admitted insofar

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"[a]s it seeks to explore the question of alignment alternatives to the proposed placement of the Low Junction rail spur." LBP-99-3, 49 NRC at 53; see also, CLI-99-10, 49 NRC at 326-7.

SUWA asserts that the North Cedar Mountains area ("NCMA") should be designated as wilderness under the Wilderness Act of 1964. Contentions at 2.¹ SUWA defines the NCMA as a roadless area just west of Skull Valley and just south of Interstate 80 and the Union Pacific mainline railroad. <u>See id.</u> at 3; <u>id.</u> Exhibit 2 (map). The PFS Low rail line will run north to south across the far eastern portion of the area, separating a sliver of land approximately one-half to three-quarters of a mile wide and less than three miles long from the remainder of the area, which is approximately five miles wide and seven miles long. <u>See id.</u>; Declaration of Douglas Hayes, Exhibits 2 and 4. The PFS Low rail line would allegedly "irreversibly impair the wilderness character of the North Cedar Mountains." Contentions at 4. Thus, SUWA claims that PFS has failed to adequately consider alternatives to the Low rail line that would protect the wilderness character of the NCMA and preserve for Congress the opportunity to designate the area as wilderness. Id. at 5-6.²

II. LEGAL BASIS

A. Summary Disposition

The legal standards relevant to summary disposition have been set forth previously. <u>See, e.g., Private Fuel Storage, L.L.C.</u> (Independent Fuel Storage Installation), LBP-99-23, 49 NRC 485, 491 (1999); Applicant's Motion For Summary Disposition of Utah Contention C – Failure to Demonstrate Compliance With NRC Dose Limits, (April

¹ Southern Utah Wilderness Alliance's Contentions Regarding Private Fuel Storage Facility License Application (the Low Rail Spur) (Nov. 18, 1998) ("Contentions").

² The scope of Contention SUWA B does <u>not</u> include PFS's assessment of the environmental impacts of the Low Corridor rail line, in that SUWA attempted to raise that challenge in Contention SUWA A which was rejected by the Licensing Board. LBP-99-3, 49 NRC at 53, 54. Thus, SUWA should not be permitted to allege new impacts arising from the Low Corridor line or the inadequacy of PFS's analysis of impacts in response to this motion.

21, 1999), at 4-16. SUWA may file affidavits purporting to contain expert opinions in opposition to this motion and therefore the legal requirements concerning such, <u>id.</u> at 10-15, will be particularly relevant here.³ These requirements include 1) demonstration that the affiant is an expert, and 2) an explanation of facts and reasons in the affidavit supporting the affiant's expert's opinion.⁴ An affidavit made on "information and belief" is insufficient,⁵ as are mere unsupported conclusions.⁶ As the Supreme Court has held, reliable expert opinion must be based on "more than subjective belief or unsupported speculation." <u>Daubert v. Merrell Dow Pharms., Inc.</u>, 509 U.S. 579, 590 (1993). Applicant demonstrates that it is entitled to summary disposition of SUWA B below.

B. The National Environmental Policy Act (NEPA)

1. Environmental Impact Statement

NEPA and the NRC regulations promulgated thereunder require that an Environmental Impact Statement (EIS) describe the potential impacts of a proposed action on the environment and discuss any reasonable alternatives to the action. 10 C.F.R. § 51.71(d). The discussion of environmental impacts should be sufficient "to enable the decisionmaker to take a 'hard look' at environmental factors and make a reasoned decision." <u>Louisiana Energy Services, L.P.</u> (Claiborne Enrichment Center), CLI-98-3, 47 NRC 77, 88 (1998) (citations omitted). An EIS is prepared under a " rule of reason" standard. <u>Id.</u> at 97. Thus, impacts are discussed in proportion to their significance. <u>See</u> 10 C.F.R. §§ 51.29(a)(2) and (3), 51.45(a)(1). Insignificant impacts need receive little or no treatment

³ SUWA may also file affidavits of lay witnesses. Such affidavits must be based on the personal knowledge of the witness. Fed. R. Evid. 602.

⁴ See Mid-State Fertilizer Co. v. Exchange Nat'l Bank, 877 F.2d 1333, 1339 (7th Cir. 1989); Carolina Power & Light Company (Shearon Harris Nuclear Plant, Units 1 and 2), LBP-84-7, 19 NRC 432, 447 (1984).

⁵ Columbia Pictures Indus., Inc. v. Professional Real Estate Investors, Inc., 944 F.2d 1525, 1529 (9th Cir. 1991), aff'd on other grounds, 508 U.S. 49 (1993).

⁶ <u>Public Service Company of New Hampshire</u> (Seabrook Station, Units 1 and 2), LBP-83-32A, 17 NRC 1170, 1177 (1983); <u>Private Fuel Storage, L.L.C.</u> (Independent Spent Fuel Storage Installation), LBP-99-35, 50 NRC 180, 194 (1999).

in the DEIS. <u>See</u> 10 C.F.R. § 51.29(a)(3). "Remote and speculative" impacts need not be discussed. <u>Limerick Ecology Action v. NRC</u>, 869 F.2d 719, 739 (3d Cir. 1989). In addition to the DEIS, the environmental record in this proceeding also includes material filed with this motion. <u>See Allied-General Nuclear Services</u> (Barnwell Nuclear Fuel Plant Separations Facility), ALAB-296, 2 NRC 671, 680 (1975).

2. Analysis of Alternatives

An EIS must look at "alternatives available for reducing or avoiding adverse environmental effects." 10 C.F.R. § 51.71(d). The "rule of reason" guides "both the choice of alternatives as well as the extent to which the [EIS] must discuss each alternative." City of Carmel-by-the-Sea v. DOT, 123 F.3d 1142, 1155 (9th Cir. 1997). Thus, the discussion "must consider not every possible alternative, but every reasonable alternative." Long Island Lighting Co. (Shoreham Nuclear Power Station, Unit 1), CLI-91-02, 33 NRC 61, 71 (1991) (first emphasis added). Hence, NEPA does not require the consideration of alternatives that are impractical, Airport Neighbors Alliance v. United States, 90 F.3d 426, 432 (10th Cir. 1996), that present unique problems, or that cause extraordinarv costs. Communities. Inc. v. Busev, 956 F.2d 619, 627 (6th Cir. 1992). Nor does NEPA require the consideration of speculative "alternatives which could only be implemented after significant changes in governmental policy or legislation." Sacramento Municipal Utility District (Rancho Seco Nuclear Generating Station), CLI-93-3, 37 NRC 135, 145 (1993). Nor does NEPA require the consideration of alternatives that "are not significantly distinguishable from alternatives actually considered." Headwaters, Inc. v. BLM, 914 F.2d 1174, 1181 (9th Cir. 1990), reh'g en banc denied, 940 F.2d 435 (1991). "[A]n agency's consideration of alternatives is sufficient if it considers an appropriate range of alternatives, even if it does not consider every available alternative." Id. Moreover, NEPA does not require the selection of the most environmentally benign alternative if "other values outweigh the environmental costs." Claiborne, CLI-98-3, 47

NRC at 88 (quoting <u>Robertson v. Methow Valley Citizens Council</u>, 490 U.S. 332, 350 (1989)).

C. The Wilderness Act and the Federal Land Policy and Management Act

Under the Federal Land Policy and Management Act of 1976 ("FLPMA"), the Secretary of the Interior is the federal official responsible for reviewing BLM land for potential designation as wilderness. The Secretary is to review "those roadless areas of five thousand acres or more . . . of the public lands, identified . . . as having wilderness characteristics described in the Wilderness Act"⁷ and report to the President on "the suitability or nonsuitability of each such area . . . for preservation as wilderness." 43 U.S.C. § 1782(a).⁸ The President must then advise Congress of those areas he recommends be designated as wilderness, but Congress must make the final designation by passing a statute. 43 U.S.C. § 1782(b). FLPMA requires the Secretary to maintain an inventory of BLM lands and "their resource and other values." 43 U.S.C. § 1711(a). The Secretary has claimed continuing authority under this provision to evaluate lands for potential wilderness designation. Babbitt, supra note 8, 37 F.3d at 1207.

⁸ The Secretary's review process has involved:

Utah v. Babbitt, 137 F.3d 1193, 1198 (10th Cir. 1998) (citations omitted).

⁷ The Wilderness Act of Sept. 3, 1964, imposes similar requirements and processes for areas within national forests, national parks, national wildlife refuges, and national game ranges. 16 U.S.C. §§ 1131 *et seq.* Further, the Wilderness Act characterizes a wilderness as an area "which (1) generally appears to have been affected primarily by the forces of nature, with the imprint of man's work substantially unnoticeable; (2) has outstanding opportunities for solitude or a primitive and unconfined type of recreation; (3) . . . and (4) may also contain ecological, geological, or other features of scientific, educational, scenic, or historical value." 16 U.S.C. § 1311(c). The third criterion is whether the area includes at least 5,000 acres of land. 16 U.S.C. § 1311(c)(3).

⁽¹⁾ the "inventory' phase, consisting of (a) an "initial inventory" to identify "wilderness inventory units," which were defined as roadless areas of 5000 acres or more that may have wilderness characteristics, and (b) an "intensive inventory" of these units to determine whether the units possessed wilderness characteristics and, if so, designation of the units as "wilderness study areas" ("WSAs"); (2) the "study" phase, during which WSAs were studied to determine whether the lands were suitable for designation as wilderness; and (3) the "reporting" phase, consisting of the Secretary's recommendations to the President and the President's recommendations to Congress.

Therefore, because the proposed Low rail line would cut off the far easternmost portion of SUWA's NCMA and reduce it to an area of less than 5,000 acres, it would legally preclude that portion of the area from being designated as wilderness. See 43 U.S.C. § 1782(a); 16 U.S.C. § 1311(c)(3).⁹ The rail line would <u>not</u>, however, preclude the remainder of the NCMA from being designated as wilderness, in that the area would be larger than 5,000 acres and human imprints <u>outside</u> potential wilderness areas, e.g., roads and railroads, are not considered in their evaluation.¹⁰ Bureau of Land Management, Wilderness Inventory and Study Procedures, H-6310-1 (Jan. 10, 2001) at 13, 16-17 (attached as Exhibit E).

III. PFS IS ENTITLED TO SUMMARY DISPOSITION OF SUWA B

PFS is entitled to summary disposition of SUWA B because there remains no genuine issue as to any material fact relevant to the contention and PFS is entitled to a decision as a matter of law.

A. BLM Has Rejected the North Cedar Mountains as Wilderness

In 1980, BLM considered the North Cedar Mountains¹¹ for designation as wilderness as part of its inventory of lands in Utah and rejected it after the "intensive inventory"

⁹ As shown below, however, since BLM has considered the NCMA for designation as wilderness and rejected it, the impact of the PFS rail line even on the easternmost portion of the area is moot and should not be the basis for evaluating NEPA alternatives. See section III.A., infra.

¹⁰ Indeed, if roads and railroads outside potential wilderness areas were considered, the presence of I-80 and the Union Pacific mainline immediately to the north of the NCMA would preclude its designation as wilderness straightaway and the impact of the PFS rail line would be immaterial. SUWA's position on this issue has been inconsistent. SUWA originally asserted that the PFS rail line would adversely affect the suitability of the entire NCMA for wilderness designation, not just the far easternmost portion. Southern Utah Wilderness Alliance's Request for Hearing and Petition to Intervene (Nov. 18, 1998) ("Petition") at 8; Intervenor Southern Utah Wilderness Alliance's Responses to the Applicant's First Set of Interrogatories and Requests for Production of Documents (May 28, 1999) at 3. SUWA witness Jim Catlin maintained this position in his deposition as well, until asked about the presence of I-80 and the Union Pacific, at which point he reversed himself and conceded that a rail line outside an area would not preclude its designation as wilderness. Compare Deposition of James C. Catlin (Apr. 24, 2001) ("Catlin Dep.," relevant excerpts attached as Exhibit D) at 42-50 with id. at 51-53, 55-58; see also id. at 70-72, 93-94, 106-07.

¹¹ The North Cedar Mountains land unit BLM considered (Inventory Unit No. UT-020-087) was not identical to SUWA's NCMA, in that the BLM unit included some land that is southwest of (just outside) the NCMA. Nevertheless, the NCMA lies almost entirely, if not entirely, within the BLM unit. <u>Compare</u> Contentions Exh. 2 (map) with BLM Intensive Wilderness Inventory, Final Decision on Wilderness Study Footnote continued on next page

stage of that process. 45 Fed. Reg. 75,602, 75,603-04 (1980). BLM reasoned and concluded:

The lack of "outstanding" potential, or opportunity for solitude and/or primitive and unconfined recreational experience should drop [the North Cedar Mountains area] from further wilderness inventory consideration. Man's imprints are substantially noticeable within the unit. Natural screening contributes little to hide or enclose man and his contrasting influences. Recreation opportunities exist but all are encumbered by man's developments.

BLM 1980 Inv., <u>supra</u> note 11. Since then, the use of the NCMA has not been restricted on the basis of any potential to be designated as wilderness; <u>i.e.</u>, BLM dropped it from control under the Wilderness Interim Management Policy. 45 Fed. Reg. at 75,603-04.¹² That BLM decision was not protested and became final on December 15, 1980. <u>See</u> 45 Fed. Reg. 86,558 (1980); 46 Fed. Reg. 15,332 (1981).¹³

Since 1980, SUWA and others have attempted to have BLM lands in Utah reevaluated and designated as wilderness with little success. Every year since 1989, a bill has been introduced in Congress to designate lands in Utah (including the Cedar Mountains adjacent to the NCMA to the south, but - significantly - not the NCMA) as wilderness. <u>See Babbitt</u>, 137 F.3d at 1199 n.4; H.R. 1613, 107th Cong. (2001). The bill has never passed. <u>See Babbitt</u>, 137 F.3d at 1199 n.4; SUWA Web Page.¹⁴

Footnote continued from previous page

Areas, Utah (November 1980) ("BLM 1980 Inv."), relevant excerpts attached as Exhibit F (map) (Exhibit F was also filed as Exhibit 2 of Applicant's Answer to Petition to Intervene and Contentions of Southern Utah Wilderness Alliance (Dec. 1, 1998)).

¹² See Babbitt, 137 F.3d at 1198 & n.2; 43 U.S.C. §§ 1782(a) and (c) (restrictions on land use apply only to those lands "identified during the inventory [required by FLPMA] as having wilderness characteristics").

¹³ The NCMA was one of 176 intensive inventory units evaluated in Utah. BLM 1980 Inv. The BLM decisions regarding 61 areas were protested, but the decision about this area was not. Decision on Protests to Final Wilderness Inventory Decision, 46 Fed. Reg. 15,332 (1981).

¹⁴ <u>http://www.suwa.org/ARWA/HR1732S861.html</u> (attached as Exhibit G); <u>see also, e.g.</u>, Dan Harrie, <u>Hatch's Lost Power Makes Hansen Utah's Point Man in Congress</u>, Salt Lake Tribune (June 10, 2001) (quoting Rep. James Hansen (R-UT), "Look at all the things that don't go through because I don't want them through, ... I mean, take the Southern Utah Wilderness Alliance [SUWA] wilderness bill -- I don't see why they take the time to introduce it.")

In 1998, SUWA surveyed BLM lands in Utah again and proposed (without having them included in the federal bill) that, <u>inter alia</u>, the NCMA be designated as wilderness. Petition at 3, 5. From 1996 to 1999, BLM reinventoried over 15 million acres of its lands in Utah. BLM 1999 Inv., Introduction.¹⁵ It did so specifically to determine whether any land had been improperly rejected as wilderness during the 1980 inventory. Id. The 1999 inventory reexamined the wilderness suitability of all the lands covered in bills pending in Congress in 1995 and 1997 (<u>i.e.</u>, the bill that is now H.R. 1613), but did not include the NCMA. Id. As a result of the reinventory, BLM is considering expanding some Wilderness Study Areas (WSAs) in Utah, including the Cedar Mountain WSA, which is adjacent to the NCMA to the south. 64 Fed. Reg. 13,439 (1999). Again, significantly, expansion of the Cedar Mountain WSA further north to include the NCMA was <u>not</u> proposed because the developed area of Hastings Pass lies between the Cedar Mountain WSA and the NCMA. BLM 1999 Inv., Cedar Mountains.¹⁶

In sum, the responsible federal agency, BLM, rejected the North Cedar Mountains as wilderness over 20 years ago. Despite the efforts of SUWA and others since then to have more land in Utah designated as wilderness, and despite BLM's reinventory of its lands in Utah as recently as two years ago, BLM has not changed its decision. Nor has Congress shown an inclination to designate Utah lands as wilderness directly. Therefore, while the proposed Low rail line alignment would <u>legally</u> preclude the far easternmost portion of the NCMA from being designated as wilderness, because BLM has already rejected the NCMA as a whole, the potential impact of the rail line is essentially moot. Speculation that sometime in the future BLM might change its decision or Congress might directly designate the NCMA as wilderness is no basis for evaluating alternatives under NEPA. Rancho Seco, CLI-93-3, 37 NRC at 145-46. Thus, the fact that the PFS

¹⁵ Utah Wilderness Inventory, BLM (1999) ("1999 BLM Inv.") http://www.access.gpo.gov/blm/utah.

rail line crosses the NCMA should be no factor in evaluating the environmental impacts of rail line alignment alternatives.¹⁷

B. PFS Has Considered Reasonable Alternatives to the Low Rail Line

In satisfaction of NEPA's requirements, PFS has considered reasonable alternatives for the alignment of the rail line to the PFSF.¹⁸ Specifically, PFS has considered: 1) the proposed Low Corridor alignment, 2) an alignment approximately three-quarters of a mile east of the proposed Low Corridor alignment, immediately to the east of SUWA's NCMA ("the west Skull Valley alternative"), 3) an alignment running down the center of Skull Valley from the Union Pacific mainline to the Private Fuel Storage Facility ("PFSF") (the "central Skull Valley alternative"), and 4) four alignments running down the east side of Skull Valley, along Skull Valley Road ("the east Skull Valley alternatives"). Declaration of John Donnell (June 28, 2001) ¶ 5. These alignments constitute reasonable alternatives for transporting spent fuel by rail to the PFSF. Furthermore, because it creates the least environmental impact and has the lowest the cost, the proposed Low Corridor alignment is the preferable alternative.

1. The Proposed Low Corridor Alignment

The proposed Low Corridor rail line is described in sections 3.2.1.5 and 4.4 and Figure 3.2-2 of the PFS Environmental Report (ER) and section 2.1.1.3 of the DEIS. <u>See also</u> Declaration of Douglas Hayes (June 28, 2001) ¶¶ 5-7. The rail line will connect the PFSF directly to the Union Pacific mainline railroad at Low Junction, Utah. The single

¹⁷ Under the logic of SUWA's contention, if it or any other organization or individual believes that a tract of land qualifies and should be designated as wilderness, than nothing can be done to that land until Congress acts. Such is clearly not the intent of the FLPMA or the Wilderness Act and is directly contrary to provisions of those statutes where, as here, the federal agency charged with making recommendations to Congress for the designation of wilderness areas has determined that the area in question does not qualify for such designation. Once BLM drops an area from further wilderness consideration, it is no longer subject to the land use restrictions imposed by FLPMA during BLM's review. See 45 Fed. Reg. at 75,603-04.
¹⁸ The Board may reach a conclusion on an issue based on evidence submitted to it with this motion even if the information is not contained within the DEIS itself. In that instance the DEIS would be "deemed amended pro tanto" without need for formal redrafting. See Barnwell, ALAB-296, 2 NRC at 680.

track line will be approximately 32 miles long and will run from the mainline on the south side of Interstate 80 at Low Junction. From the mainline at Low, the rail line will proceed southeast parallel to Interstate 80 for approximately 3 miles, then turn south along the western side of Skull Valley for approximately 26 miles, and then turn east for approximately 3 miles to the PFSF. Associated sidings will be located either at the PFSF or near Low Junction. ER at 3.2-6, 4.4-1. While the rail line will be operated within a 40-foot wide corridor that will serve in part as a fire buffer, <u>no</u> access road will exist along the railroad. DEIS at 2-14. As discussed above, the Low rail line would cut across the far easternmost portion of the NCMA, isolating a portion of the NCMA one-half to three-quarters of a mile wide and less than three miles long. <u>See</u> Hayes Dec., Exhibits 2 and 4.

2. The West Skull Valley Alternative

PFS has considered a rail alignment that follows the proposed Low Corridor alignment, but at the point where the current alignment turns south to cross part of the NCMA, this west Skull Valley alternative alignment continues southeast for approximately three-quarters of a mile and then turns south, passing just to the east of the NCMA. Donnell Dec. ¶ 11; Hayes Dec. ¶¶ 8, 10. Because this alignment does not cross the NCMA, it would not legally bar any part of the NCMA from consideration for potential designation as wilderness (assuming <u>arguendo</u> that the NCMA is suitable at all, <u>see</u> section III.A, supra). See note 7, supra.

Nevertheless, in order to avoid the NCMA, this alternative would have to be carefully routed 1) between the NCMA and a parcel of State-owned land at the north end of the NCMA and 2) between the NCMA and the large mudflat (<u>i.e.</u>, wetland) occupying central Skull Valley at the south end of the NCMA. Hayes Dec. ¶ 11; <u>id</u>. Exhibits 2 and 4. Because of the State's vehement opposition to this project, it is not credible for PFS to plan a rail line alternative that would run through State-owned land. <u>See Rancho Seco</u>,

CLI-93-3, 37 NRC at 145-46. Furthermore, because of the presence of the mudflat in central Skull Valley and the impacts that would result to it, PFS could not route this alternative farther to the east (assuming PFS could first get through the State-owned land). See section III.B.3, infra; Declaration of Susan Davis (June 28, 2001) ¶¶ 6, 11.

Thus, this alternative must follow a narrow corridor just to the east of the NCMA. This constrained route follows undulating terrain, which would require more "cutting and filling" of earth to build the rail line than would be necessary to build the Low Corridor line. Hayes Dec. ¶¶ 12, 18, 20. It would require PFS to emplace 560,000 cu. yds. of fill material, in the form of berms up to 20 feet high, of which approximately 260,000 cu. yds. would have to be imported to the construction site. Id. ¶¶ 20-21. This would increase the cost of the alternative by \$5 million, i.e., by between 15-25 percent of the cost of the proposed Low Corridor line.¹⁹ Donnell Dec. ¶¶ 13-16.

In addition, because the berms would block access to the land and the use of roads to the west, this alternative would have other environmental impacts beyond those that would result from the proposed Low Corridor line. Davis Dec. ¶¶ 8-9. They include interference with roads, cutting off part of the NCMA for wildlife and cattle grazing, a greater visual impact, and potential interference with the fighting of wildfires in the NCMA. Davis Dec. ¶¶ 8-9. Other environmental impacts, such as noise, impacts on flora and fauna, air pollution, and other resource consumption would be small and similar to those of the proposed Low Corridor alignment. Id. ¶¶ 6-7; see also Catlin Dep. at 86-90. Thus, the environmental impacts and the cost of the west Skull Valley alternative would be greater than those of the Low Corridor line. Hence the alternative would be inferior to the proposed route.

¹⁹ The exact cost of the rail line is PFS proprietary information. Affidavit of John D. Parkyn (May 15, 2000) (filed in conjunction with testimony on Contention Utah E—Financial Assurance).

3. The Central Skull Valley Alternative

PFS also considered potential rail alignments that would run from the Union Pacific down the center of Skull Valley to the PFSF. Donnell Dec. ¶ 5. These alignments would have required the construction of a bridge over I-80, as the Union Pacific mainline runs along the north side of the highway at that point. See id. \P 7 (I-80 is south of the Union Pacific mainline until they reach Low Junction). Crossing I-80 would result in additional costs, complexity, and environmental impacts. Id. These alignments would also cross a large mudflat that occupies most of northern-central Skull Valley and that qualifies as a wetland under section 404 of the Clean Water Act. Davis Dec. ¶ 11. Thus, using these alignments would require a permit from the Army Corps of Engineers. Id. The Corps of Engineers, however, will not grant a permit to alter wetlands where project alternatives exist that do not require alteration of wetlands. 40 C.F.R. § 230.10(a). Here, alternatives to a central Skull Valley alignment clearly exist and thus it is doubtful that PFS would be able to obtain permission to use these alignments. In any event, even if building a rail line through central Skull Valley were permissible, because of its impacts on wetlands, its environmental impacts would be greater than those of the Low Corridor alignment. Davis Dec. ¶ 13. Other environmental impacts, such as noise, visual impact, air pollution, and resource consumption would be small and similar to those of the Low Corridor alternative. Id. ¶ 12.

4. The East Skull Valley Alternatives

PFS also considered rail line alignments that would have begun at various points along the Union Pacific mainline north of the east side of Skull Valley and continued south, down the east side of the valley, along the east side of Skull Valley Road, to the Skull Valley Reservation before turning west toward the PFSF. Donnell Dec. ¶ 5; DEIS at 2.2-42. The east side alternatives are constrained by the location of the Union Pacific mainline in that it runs on the north-side of I-80 from Salt Lake City until reaching Low Junction on the west side of Skull Valley. Donnell Dec. ¶ 7. Crossing I-80 would result

in additional costs, complexity, and environmental impacts. Id. ¶¶ 7-8. In addition, running the rail line parallel to Skull Valley Road would result in impacts to wetlands at Horseshoe Springs, existing houses and ranches along the road, and traffic on the road. Id. ¶ 9. Other environmental impacts, such as air pollution, and resource consumption would be small and similar to those of the Low Corridor alternative. Davis Dec. ¶ 15. Therefore, these alternatives were rejected as inferior to the proposed Low Corridor alignment. Donnell Dec. ¶ 10.

5. The Low Corridor Alignment is a Suitable Alternative to Choose

As discussed above, PFS has considered the range of reasonable alternative rail line alignments available for transporting spent nuclear fuel from the Union Pacific mainline to the PFSF. Of the potential alternatives, the proposed Low Corridor alignment has the least environmental impact. The fact that the proposed alignment crosses a small part of SUWA's NCMA does not alter that conclusion, since BLM rejected the area for potential designation as wilderness over 20 years ago and neither it nor Congress has shown any inclination to change that decision. Furthermore, even if the NCMA were suitable for wilderness designation, the Low Corridor rail alignment would only disqualify the far easternmost portion of the area. Changing the rail alignment to avoid the small affected part of the NCMA would result in additional concrete adverse environmental impacts and costs that would outweigh the value of preserving the small area as wilderness. Therefore, it is reasonable for PFS to locate the rail line as proposed. Thus, PFS has met NEPA's requirements for evaluating potential rail line alternatives for the PFSF.

IV. CONCLUSION

For the foregoing reasons, the Board should grant PFS summary disposition of Contention SUWA B.

Respectfully submitted,

Jay E. Silberg Ernest L. Blake, Jr. Paul A. Gaukler D. Sean Barnett SHAW PITTMAN 2300 N Street, N.W. Washington, DC 20037 (202) 663-8000 Counsel for Private Fuel Storage L.L.C.

Dated: June 29, 2001

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of)	
)	
PRIVATE FUEL STORAGE L.L.C.)	Docket No. 72-22
)	
(Private Fuel Storage Facility))	ASLBP No. 97-732-02-ISFSI

STATEMENT OF MATERIAL FACTS ON WHICH NO GENUINE DISPUTE EXISTS

Applicant submits, in support of its motion for summary disposition of SUWA B, this statement of material facts as to which the Applicant contends there is no genuine issue to be heard.

A. Contention

1. Contention SUWA B as admitted by the Licensing Board states:

The License Application Amendment fails to develop and analyze a meaningful range of alternatives to the Low Corridor Rail Spur and the associated fire buffer zone that will preserve the wilderness character and the potential wilderness designation of a tract of roadless Bureau of Land Management (BLM) land — the North Cedar Mountains — which it crosses.

<u>Private Fuel Storage, L.L.C.</u> (Independent Spent Fuel Storage Installation), LBP-99-3, 49 NRC 40, 53, <u>aff'd</u>, CLI-99-10, 49 NRC 318 (1999). The contention was admitted so far "as it seeks to explore the question of alignment alternatives to the proposed placement of the Low Junction rail spur." LBP-99-3, 49 NRC at 53. In June 2000, the NRC Staff issued NUREG-1714, "Draft Environmental Impact Statement for the Construction and Operation of an Independent Spent Fuel Storage Installation on the Reservation of the Skull Valley Band of Goshute Indians and the Related Transportation Facility on Tooele County, Utah" ("DEIS").

B. The North Cedar Mountains Area

- 3. The North Cedar Mountains area (NCMA), which SUWA asserts should be designated as wilderness, lies in the northern Cedar Mountains, just south of Interstate 80 and the Union Pacific mainline railroad. The area is roughly 5.5 miles wide and 7 miles long. Southern Utah Wilderness Alliance's Contentions Regarding Private Fuel Storage Facility License Application (the Low Rail Spur) (Nov. 18, 1998) ("Contentions"), Exh. 2 (map).
- In 1980, BLM, the federal agency responsible for reviewing lands for potential designation as wilderness, inventoried the North Cedar Mountains and concluded that they were <u>not</u> suitable for wilderness designation. 45 Fed. Reg. 75,602, 75,603-04 (1980).
- 5. Since 1980, SUWA and others have sought to have land designated as wilderness in Utah. BLM has reconsidered of some of its Utah wilderness decisions, but has show no inclination to reconsider its decision regarding the North Cedar Mountains. Nor has Congress shown an inclination to designate the North Cedar Mountains as wilderness directly. See Utah v. Babbitt, 137 F.3d 1193, 1199 n.4 (10th Cir. 1998); SUWA web page <<u>http://www.suwa.org/ARWA/HR1732S861.html</u>>; BLM 1999 Inv., <u>supra</u>

note 15.

C. The Proposed Low Corridor Rail Line

6. The proposed Low Corridor rail line would connect the Private Fuel Storage Facility (PFSF) directly to the Union Pacific mainline railroad at Low Junction, Utah. The single track line will be approximately 32 miles long and will run from the mainline at Low Junction south to the PFSF. Donnell Dec. \P 4.

- 7. The proposed Low Corridor rail line would traverse the far eastern edge of the NCMA, isolating a portion approximately one-half to three-quarters of a mile wide and less than three miles long, whereas the entire NCMA is approximately 5.5 miles wide by 7 miles long. Donnell Dec. ¶ 11; Hayes Dec. ¶ 8 (Exhibits 2 and 4).
- 8. The railroad siding for the proposed PFS rail line from Low Junction, would have a surplus of cut material at the Low Pass siding area of approximately 300,000 cubic yards. As proposed, this material would be added to the natural contours around the siding and stabilized with vegetation. Hayes Dec. ¶ 21.
- 9. In terms of earthwork (<u>i.e.</u>, cut and fill) and ignoring the first mile of corridor which will generate a surplus of cut material at Low Junction, the remaining 31 mile length of the proposed Low Corridor rail line alignment has a balance, that is material removed to level the rail road bed ("cut") approximately equals material added ("fill"). Hayes Dec. ¶ 12.

D. The West Skull Valley Alternative

- 10. PFS has considered an alternative rail line alignment on the west side of Skull Valley that that does not cross the NCMA but rather passes just to the east of it. Donnell Dec. ¶ 5; Hayes Dec., Exhibits 2 and 4. The alternative rail line would be about 2,000 to 3,000 feet east of the alignment of the proposed rail line for about 6.5 miles. Hayes Dec. ¶ 10.
- 11. The route of the west Skull Valley alternative is constrained by two narrow gaps on BLM land through which it must pass. The first gap is at the northern end of the alternative alignment; it must pass east of the NCMA but stay west of the parcel of land owned by the State of Utah. The second gap is along the southern part of the alternative alignment; it must not go too far east to avoid

the large mud flat (<u>i.e.</u>, wetland) in the middle of Skull Valley before rejoining the proposed rail line alignment. Hayes Dec. \P 11; <u>id</u>. Exhibits 2 and 4.

- 12. The maximum grade of the PFS rail line (other than at sidings) is 1.5%. Maximum rail line grade is set based on the best fit of locomotive tractive effort and horsepower. The 1.5% maximum grade is set to enable PFS trains to move at a reasonable speed. Hayes Dec. ¶ 7.
- 13. The route of the west Skull Valley alternative follows undulating terrain such that the railroad bed requires the use of a significant amount of fill material to maintain the 1.5% maximum grade limit on PFS trains. Hayes Dec. ¶¶ 13-15, 17-19. Total net fill material required over the 6.5 mile length of the alternative rail alignment is 560,000 cubic yards. Id. ¶ 20.
- 14. The surplus of cut material from the Low Pass siding area of approximately 300,000 cubic yards could be used for fill on the alternative rail line. The balance of any material not coming from the Low Pass siding area would need to be imported from an offsite location; <u>i.e.</u>, about 260,000 cubic yards. Hayes Dec. ¶ 21.
- 15. As a result of the higher fill requirements the alternative alignment would be significantly more expensive than the proposed Low Corridor alignment. This alternative would increase costs by 15 to 25% by adding \$5 million dollars for the fill alone ignoring additional cost impacts for other material and related installation effects. Donnell Dec. ¶¶ 13-16.
- 16. The environmental impacts of the west Skull Valley alternative would be higher than the impacts of the proposed Low Corridor rail line because of the need to use more fill material and because the alternative would have to be built on a raised railroad bed as much as 20 feet high. Donnell Dec. ¶ 17; Davis Dec. ¶¶ 8-9. The raised railroad bed would have a visual impact and could interfere with the access to roads, grazing, or the fighting of wildfires in the North Cedar Mountains. Id.

17. Aside from the impacts of the fill material and the raised railroad bed, the proposed Low Corridor line and the west Skull Valley alternative would have similar (small) environmental impacts. Davis Dec. ¶¶ 6-7.

E. The Central Skull Valley Alternatives

- 18. PFS has considered railroad alignment alternatives that would pass down the center of Skull Valley from the Union Pacific mainline south to the PFSF. Donnell Dec. ¶ 5. The central valley alternatives are constrained by the location of the Union Pacific mainline in that it runs on the north-side of I-80 from Salt Lake City until reaching Low Junction on the west side of Skull Valley. See id. ¶ 7.
- 19. The northern end of Skull Valley is covered by mudflats and adjacent wetlands, which provides a specialized habitat for a variety of shorebirds and other animals. All of the mudflat habitat is classified and protected as waters of the United States under section 404 of the Clean Water Act. Davis Dec. ¶ 11.
- 20. A center of the valley route would require the mudflats to be bisected by a rail line, disrupting the habitat and requiring fill. Davis Dec. ¶ 11. It is improbable that PFS would obtain a Army Corps of Engineers permit to fill long tracts of the mid-valley mudflats when alternatives on the east and west side of Skull Valley are feasible and would not impact any wetlands or waters of the United States. Id.; 33 C.F.R. §§ 330.4(a) and (e).
- 21. Other than the impact on wetlands and the need to cross I-80, the central Skull Valley alternative and the proposed Low Corridor rail line would have similar (small) environmental impacts. Davis Dec. ¶ 12.

F. The East Skull Valley Alternatives

22. PFS considered railroad alignments parallel to Skull Valley Road on the east side of Skull Valley as potential alternatives to the currently proposed Low

Corridor alignment. Donnell Dec. ¶ 5. The east side alternatives are constrained by the location of the Union Pacific mainline in that it runs on the north-side of I-80 from Salt Lake City until reaching Low Junction on the west side of Skull Valley. Id. ¶ 7.

- 23. The existing underpasses under I-80 in Skull Valley would provide insufficient clearance for a train carrying a loaded spent fuel cask. Donnell Dec. ¶ 7.
- 24. Other alternatives to allow an alignment along the east side of the valley would require either constructing a rail bridge over I-80 or a making rock cut through the northern Stansbury Mountains. Both of these options involve substantially increased construction costs and add complexity to the project, which in turn add unnecessary technical and business risks to the project. Donnell Dec. ¶ 8.
- 25. The east Skull Valley alternative would likely impact by proximity the wetlands near Horseshoe Springs. Compared to the proposed alignment from Low Junction that requires only obtaining a right of way from BLM, an alignment along Skull Valley Road would require right of way agreements also with other land-owners along the road, particularly private and State of Utah interests. Donnell Dec. ¶ 9. Bridge construction over I-80 or a rock cut would also add environmental impacts. Id. ¶ 8. Finally, the east side alternative would also have impacts on existing houses and ranches and traffic on Skull Valley Road. Id. ¶ 9.
- 26. Other than the impacts set forth in paragraphs 24 and 25, the east Skull Valley alternative and the proposed Low Corridor alignment would have similar (small) environmental impacts. Davis Dec. ¶ 15.

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of)	
)	
PRIVATE FUEL STORAGE L.L.C.)	Docket No. 72-22
)	
(Private Fuel Storage Facility))	ASLBP No. 97-732-02-ISFSI

CERTIFICATE OF SERVICE

I hereby certify that copies of Applicant's Motion For Summary Disposition of

Contention SUWA B – Railroad Alignment Alternatives were served on the persons

listed below (unless otherwise noted) by electronic mail with conforming copies by U.S.

mail, first class postage prepaid, this 29th day of June 2001.

G. Paul Bollwerk III, Esq., Chairman Administrative Judge Atomic Safety and Licensing Board Panel U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001 e-mail: GPB@nrc.gov

Dr. Peter S. Lam Administrative Judge Atomic Safety and Licensing Board Panel U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001 e-mail: PSL@nrc.gov Dr. Jerry R. Kline Administrative Judge Atomic Safety and Licensing Board Panel U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001 e-mail: JRK2@nrc.gov; kjerry@erols.com

 * Office of Commission Appellate Adjudication
 U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001 Office of the Secretary U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001 Attention: Rulemakings and Adjudications Staff e-mail: hearingdocket@nrc.gov (Original and two copies)

Catherine L. Marco, Esq. Sherwin E. Turk, Esq. Office of the General Counsel Mail Stop O-15 B18 U.S. Nuclear Regulatory Commission Washington, D.C. 20555 e-mail: pfscase@nrc.gov

John Paul Kennedy, Sr., Esq. David W. Tufts, Esq. Confederated Tribes of the Goshute Reservation and David Pete Durham, Jones & Pinegar 111 East Broadway, Suite 900 Salt Lake City, Utah 84105 e-mail: dtufts@djplaw.com

Diane Curran, Esq. Harmon, Curran, Spielberg & Eisenberg, L.L.P. 1726 M Street, N.W., Suite 600 Washington, D.C. 20036 e-mail:DCurran.HCSE@zzapp.org

*Richard E. Condit, Esq. Land and Water Fund of the Rockies 2260 Baseline Road, Suite 200 Boulder, CO 80302

* By U.S. mail only

 * Adjudicatory File Atomic Safety and Licensing Board Panel U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001

Denise Chancellor, Esq. Assistant Attorney General Utah Attorney General's Office 160 East 300 South, 5th Floor P.O. Box 140873 Salt Lake City, Utah 84114-0873 e-mail: dchancel@state.UT.US

Joro Walker, Esq. Land and Water Fund of the Rockies 1473 South 1100 East, Suite F Salt Lake City, UT 84105 e-mail: joro61@inconnect.com

Danny Quintana, Esq. Skull Valley Band of Goshute Indians Danny Quintana & Associates, P.C. 68 South Main Street, Suite 600 Salt Lake City, Utah 84101 e-mail: quintana@xmission.com

Samuel E. Shepley, Esq. Steadman & Shepley, LC 550 South 300 West Payson, Utah 84651-2808 e-mail: Steadman&Shepley@usa.com

-A-A

D. Sean Barnett

UNITED STATES OF AMERICA

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NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of)	
PRIVATE FUEL STORAGE L.L.C.)	Docket No. 72-22
(Private Fuel Storage Facility))	ASLBP No. 97-732-02-ISFSI

EXHIBITS FOR APPLICANT'S MOTION FOR SUMMARY DISPOSITION OF SUWA B

<u>Tab No.</u>	Subject
А	Declaration of John Donnell
B	Declaration of Douglas Hayes
С	Declaration of Susan Hayes
D	Excerpts from Deposition of Jim Catlin
E	Excerpts from BLM Wilderness Inventory and Study Procedures
F	Excerpts from BLM Intensive Wilderness Inventory
	Utah 1980
G	Excerpts from SUWA Web Page

Exhibit A

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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of)	
PRIVATE FUEL STORAGE L.L.C.))	Docket No. 72-22
(Private Fuel Storage Facility))	ASLBP No. 97-732-02-ISFSI

DECLARATION OF JOHN DONNELL

John Donnell states as follows under penalties of perjury:

A. Background

1. I am Project Director for Private Fuel Storage, L.L.C. ("PFS"). In my capacity as Project Director, I am responsible for the execution and integration of the legal and technical activities of the Private Fuel Storage Facility ("PFSF") project. I am providing this affidavit in support of a motion for summary disposition of Contention [Southern Utah Wilderness Alliance] SUWA B (SUWA B) in the above captioned proceeding to assess potential alternative alignments for the Low Corridor rail line. My professional and educational experience is summarized in the curriculum vitae attached as Exhibit 1 to this Declaration.

2. As Project Director of PFS, I am knowledgeable about PFS's plan for the construction and operation of a railroad from the proposed PFSF storage site to an interconnection with the Union Pacific Railroad at Low Junction, in Utah. I am also knowledgeable of the alternative alignments for a rail line servicing the storage facility that PFS has considered.

B. Contention

3. Contention SUWA B asserts that

The License Application Amendment fails to develop and analyze a meaningful range of alternatives to the Low Corridor Rail Spur and the associated fire buffer zone that will preserve the wilderness character and the potential wilderness designation of a tract of roadless Bureau of Land Management (BLM) land—the North Cedar Mountain—which it crosses.

<u>Private Fuel Storage, L.L.C.</u> (Independent Spent Fuel Storage Installation), LBP-99-3, 49 NRC 40, 53, <u>aff'd</u>, CLI-99-10, 49 NRC 318 (1999). The contention was admitted so far "as it seeks to explore the question of alignment alternatives to the proposed placement of the Low Junction rail spur." LBP-99-3, 49 NRC at 53.

C. Low Junction Rail Spur Alternate Alignments

4. The proposed Low Corridor rail line is described in sections 3.2.1.5 and 4.4 and Figure 3.2-2 of the PFS Environmental Report (ER). The rail line will be constructed to connect the PFSF directly to the Union Pacific mainline railroad at Low Junction, Utah. The single track line will be approximately 32 miles long and will run from the mainline on the south side of Interstate 80 at Low. From the mainline at Low, the rail line will proceed southeast parallel to Interstate 80 for approximately 3 miles, then turn south along the western side of Skull Valley for approximately 26 miles, and then turn east for approximately 3 miles to the PFSF. Associated sidings will be located at Low Junction. ER at 3.2-6.

5. PFS evaluated rail line alignment alternatives to the Low Corridor rail line that run south from the Union Pacific mainline (which runs west from Salt Lake City across the north end of Skull Valley) to the PFSF. As part of a comprehensive study of transportation alternatives in 1998 and in previous versions of the PFSF ER, PFS considered railroad alignments parallel to Skull Valley Road on the east side of Skull Valley as potential alternatives to the currently proposed Low Corridor alignment. PFS rejected the alternatives in favor of the Low Corridor route because of the Low Corridor's lesser environmental impact and lower cost, and the alternatives' impracticability. PFS also considered briefly a potential alignment down the center of Skull Valley, but rejected

it because of the significant environmental impacts it would have, as discussed in the accompanying Declaration of Susan Davis. In response to Contention SUWA B, PFS also considered in more detail an alignment just east of SUWA's North Cedar Mountain (NCM) area that would preserve the roadless character of that area and preserve, for all of the area, the hypothetical potential for its designation as wilderness. PFS rejects that alternative because of its greater environmental impact and higher costs. Each alternative and the reasons for rejecting it are summarized below.

1. Alignment in the Center of Skull Valley

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6. A rail line from the Union Pacific mainline to the PFSF faces a fundamental constraint that it must run down either the west side or the east side of the valley. Alignments down the middle of the valley would cross the large mid-valley mud flat, which is a wetland as defined under the Clean Water Act § 404. As discussed in the accompanying Declaration of Susan Davis ¶ 11, it is doubtful that PFS could obtain an Army Corps of Engineers permit to fill relatively large tracts of the mid-valley wetland, when east and west side alternatives are feasible and do not impact a wetland. As such, mid-valley rail line alignments are not practicable alternatives to the Low Corridor rail line alignment.

2. Alignment on the East Side of Skull Valley Along Skull Valley Road

7. PFS considered alternative rail alignments along Skull Valley Road on the east side of Skull Valley in its 1998 transportation study and earlier versions of its ER. PFSF Transportation Study (SWEC 1998), §3.3; ER Rev. 0, § 4.4. The east side alternatives are constrained by the location of the Union Pacific mainline in that it runs on the north-side of I-80 from Salt Lake City until reaching Low Junction on the west side of Skull Valley. Id. at 35. The existing underpasses under I-80 in Skull Valley are relatively low and would only provide 7 inches of clearance for a loaded spent fuel cask. Id. In contrast, State of Utah and private railroad standards would require closer to eight feet of clearance without a waiver. Id. PFS concluded that obtaining such a waiver was

infeasible based on discussion with the railroad that indicated the clearance requirements were non-negotiable. <u>Id</u>. at 39. Union Pacific would only issue an "impaired clearance" to PFS, assuming that PFS would take all liability for any user of the rail line section subject to an impaired clearance. Id.

8. Other alternatives to allow an alignment along the east side of the valley would require either constructing a rail bridge over I-80 or a making rock cut through the northern Stansbury Mountains from an acceptable access point to the Union Pacific mainline railroad in the adjacent Tooele Valley. Both of these options involve substantially increased construction costs and add complexity to the project. Id. at 49, 56. Such complexity adds unnecessary technical and business risks to the rail line construction project. Id. at 62. An additional consideration is that bridge construction or a rock cut would also add environmental impacts. Id. at 51, 56.

9. If an alternative rail spur alignment on the east side of Skull Valley could be constructed to cross I-80, the rail line would be run parallel to the existing Skull Valley road along the east side of the road until crossing it near the Reservation to run about two miles west to the PFSF. DEIS § 2.2.4.2. Construction along such an alignment would likely impact by proximity the wetlands near Horseshoe Springs. Id. Compared to the proposed alignment from Low Junction that requires only obtaining a right of way from BLM, an alignment along Skull Valley Road would require right of way agreements also with other land-owners along the road, particularly private and State of Utah interests. Id. As the DEIS concluded, construction of a rail line on the eastern side of Skull Valley need not be considered in further detail due to the likelihood for any such construction to directly impact wetlands, existing houses and ranches, or traffic on Skull Valley Road. Id.

10. Based on these considerations, a rail route on the eastern side of Skull Valley is inferior to the proposed Low Corridor route.

3. Alignment on the West Side of Skull Valley East of SUWA's North Cedar Mountains Area

11. The proposed Low Corridor rail line would run from the Union Pacific main line, near Low Junction, Utah to the PFSF, which would be located approximately 25 miles to the south on the Skull Valley Indian Reservation. From Low Junction, the rail line will proceed southeast, parallel to I-80, for approximately 3 miles, then turn south along the western side of Skull Valley for approximately 26 miles, and then turn east for approximately 3 miles to the PFSF for a total track length of about 32 miles. The NCM area, which SUWA purports is suitable for consideration as wilderness, is located at the northern end of the Cedar Mountains, just west of Skull Valley and just south of I-80. It is a rough polygon about 5.5 miles wide by 7 miles long. The proposed rail line would run through the far eastern edge of this area for less than three miles. See Haves Dec. ¶ 8 (Exhibits). As discussed in the accompanying Declaration of Douglas Hayes ¶ 10, the alternate alignment would run 2,000 to 3,000 feet further east than the proposed alignment in order to avoid the NCM area. The alternative alignment would rejoin the proposed alignment to the south of the NCM area, after a total distance of about six miles.

12. As discussed in the accompanying Declaration of Douglas Hayes ¶ 12, in terms of earthwork (i.e., cut and fill), and ignoring the initial cut at Low for the mainline rail connection, the remaining length (31 miles) of the proposed Low Corridor 32-mile rail line alignment has a net material balance; that is material removed to level the railroad bed ("cut") approximately equals material added ("fill"). The mainline cut at Low will locally "spoil" approximately 300,000 cubic yards of soil. The alternative alignment, however, is built on fill for most of its six mile length, driven by the constraints of available BLM land for rail corridor through two narrow gaps near the northern and southern ends of the alternative alignment. The gaps lie between the eastern edge of the SUWA's NCM area and either the western edge of a parcel of land owned by the State of Utah at the northern end or the western edge of the large mid-valley mudflat (i.e., wetlands) at the southern end. These narrow gaps operate as constraints and limit

the ability of the alternative rail line alignment to follow the natural contours of the land. As the proposed rail line alignment lacks these constraints, it follows natural contours to balance the amount of cut and fill needed. In contrast, the alternative alignment would require a total of about 560,000 cubic yards of fill.

13. As a result of the higher fill requirements described in the accompanying Declaration of Douglas Hayes, the alternative alignment would be significantly more expensive than the proposed Low Corridor alignment. PFS has previously testified in this proceeding to the estimated cost of the proposed rail line. Pre-filed Testimony of Joseph F. Gase and George L. Takacs, IV on PFSF Construction Costs, June 21, 2000 (inserted into PFS Hearing Record Transcript at 1681). This alternative would increase costs by 15 to 25% by adding \$5 million dollars for the fill alone ignoring additional cost impacts for other material and related installation effects.

14. The anticipated construction work effort would include large quantities of earth expected to be moved to level the railroad bed (cut and fill), the amount of additional material needed for ballast and subballast for the increased length of the rail line and potentially the number and size of drainage structures. The cost of this work effort is then estimated based on the typical costs of labor and materials to accomplish it. Only the additional cost of fill material has been evaluated, which gives a rough, but low, estimate of the costs associated with the alternative alignment. The proposed PFS rail line alignment balances the expected amount of cut and fill needed along the rail line ignoring the "spoil" pile at Low. This minimizes hauling cut and fill as any cut material is soon used nearby as fill. The change to the alternative alignment significantly unbalances the amounts, as fill is needed along the six miles of alternative alignment; and, therefore, there is a significant impact on rail line construction costs. Not only would there be additional labor and material to accomplish the additional work effort, but also additional costs would be incurred to obtain and haul in additional fill material.

15. Under the proposed rail line alignment, excess cut material would generated for the siding that is constructed near the Union Pacific mainline. As discussed

in the accompanying Hayes Declaration, this excess cut material, about 300,000 cubic yards, could be used as fill for the alternative rail alignment, but more would be needed. For the cost estimate, PFS assumes an additional 260,000 cubic yards of suitable fill can be found within 50 miles of the rail line construction site. If this assumption is not accurate, costs for constructing the alternative rail line alignment would be higher.

16. The cost of the alternative rail alignment using a Salt Lake City costing basis was estimated as follows.

	Description of Work	Volume of Soil (in cubic yards)	Estimated Cost
A.	Load, haul & dump from Low stockpile (avg. distance of 10 miles each way)	300,000	\$697,100
В.	Buy, load, haul & dump (avg. distance of 50 miles each way)	260,000	\$3,120,000
C.	Place & compact soil (including water)	560,000	\$1,632,400
Total Evaluated Cost			Approximately \$5,000,000

Assumptions:

- 1. Trucks used are assumed to be bottom dump trailers with a piggyback, 33 ton capacity (1.85 ton/cu. yd.)
- Estimate includes only the significant costs of obtaining additional fill material. Other costs relating to longer track length and associated construction activities would increase the estimated cost.
- 3. Costs per cubic yard are assumed to be; for task A, \$2.30, for task B, \$12.00, and for task C, \$3.00.

17. As discussed in the attached declaration of Susan Davis $\P\P$ 8-9, the additional fill required to construct the alternative rail line alignment results in more

environmental impact than the proposed Low Corridor alignment. The berms required for the alternative alignment potentially have increased impacts on wildlife, cattle grazing, visual resources and wildfire fighting capability compared to the proposed alignment.

18. Considering the additional construction costs and the additional environmental impact, the alternative railroad alignment is an inferior option compared to the proposed Low Corridor rail line.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on June 28, 2001

John mill

Donnell Exhibit 1

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JOHN L. DONNELL

Project Manager

EXPERIENCE SUMMARY

Mr. Donnell has 21 years of experience in nuclear project management and engineering. Currently, he is Project Manager for the Private Fuel Storage Facility project. The project is sponsored by a consortium of eleven utilities to develop a central interim storage facility for commercial spent nuclear fuel. In addition, he is the Project Manager for plant modifications work at the Prairie Island Nuclear Generating Plant for Northern States Power Company. His duties as Project Manager includes overall project direction, estimating, contract administration, controlling project costs, and scope change control.

He is also coordinating the corporate Stone and Webster Spent Independent Spent Fuel Storage Installation (ISFSI) Program and supporting all initiatives in this focus area of the power sector. In this capacity, he is responsible for project scoping, staffing, providing estimates, recommending spent fuel storage technology selection, and interfacing with client staff as well as state and federal agencies to support corporate goals for all spent fuel storage projects.

RELEVANT PROJECT EXPERIENCE

Private Fuel Storage LLC, Private Fuel Storage Facility - As Project Manager, responsible for the engineering, design, budget and schedule control for the project. Project scope includes production of all necessary federal licensing documents for submission to the NRC for this first of a kind private fuel storage facility supporting multiple nuclear utilities. The effort also includes site selection and characterization, preliminary facility engineering and design, and related facility and transportation infrastructures. The licensing documents are in compliance with the requirements of 10 CFR Part 72. Detailed engineering and design will follow the licensing effort for the storage facility, support buildings, and transportation system.

Northern States Power Goodhue County ISFSI, Prairie Island Nuclear Generating Plant - As Project Manager, responsible for overall project direction to support the site characterization study, engineering and design, and licensing for this offsite ISFSI. The licensing documents are in compliance with the requirements of 10 CFR Part 72. Duties included:

- Providing support and attending the public forum meetings.
- Participating in the site selection process and ISFSI conceptual design.
- Supervising the development of a storage technology assessment.
- Supervising the development of a storage technology bid specification.
- Supervising the development of the Minnesota State Application for Site Certificate.

He also supervised the development of the NRC License Application, inlcuding the preparation of the Safety Analysis Report (SAR), Environmental Report (ER), Emergency Plan (EP), and Security Plan (SP).

Northern States Power, Prairie Island Nuclear Generating Plant ISFSI - As Project Manager and Project Engineer, he was responsible for this project from the preparation of the license application through site operation. Project scope included:

- Generation of federal licensing documents for submission to the NRC. This effort provided the utility with a draft SAR, ER, technical specifications, and decommissioning plan.
- Engineering and design, including site selection, geotechnical studies, security system, cask monitoring system, radiation monitoring system, perimeter shielding berm, facility support

services, road access, cask transporter design review, and procurement support.

He also supervised the auxiliary building crane trolley upgrade to single-failure-proof. This project replaced the existing crane trolley with a single-failure-proof trolley operation to support the movement of the 125-ton spent fuel storage casks within the plant.

Northern States Power Company, Prairie Island Nuclear Generating Plant - As Project Manager, responsible for the overall day-to-day management of all Stone & Webster project activity at this power plant and interface with the utility management team, including departmental and project team members. Programmatic interfaces to the client project team were developed to utilize the best and most appropriate resources from both organizations. Individual task assignments include the development of more than thirty conceptual engineering studies, execution of the engineering and design for more than seventy-four modification tasks , and the preparation of Design Basis Documents.

Portland General Electric Company, Trojan Nuclear Plant - As Project Manager, responsible for all work performed by Stone & Webster at this power plant. Work included:

- Reviewing the decommissioning plan prior to submission to the NRC.
- Performing a facilities review to establish bid evaluation criteria to be used to select the storage technology vendor for an onsite ISFSI.
- Supporting the vendor selection process.
- Preparing a technical report identifying the available storage technologies, operational characteristics, and the implementation of a risk management program for the spent fuel project.
- Performing an evaluation to develop the strategy necessary to terminate the Part 50 License with the loaded ISFSI onsite.

EDUCATION

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B.S., Electrical Engineering - University of Toledo

ASME Short Course Program - ASME Boiler & Pressure Vessel Code: Section III, Divisions 1 & 2, Quality Assurance for Design and Inspection of Nuclear Power Plant Components

LICENSES AND REGISTRATIONS

Professional Engineer - Colorado, Ohio, Minnesota

Exhibit B

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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety and Licensing Board

In the Matter of)	
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PRIVATE FUEL STORAGE L.L.C.)	Docket No. 72-22
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(Private Fuel Storage Facility))	ASLBP No. 97-732-02-ISFSI

DECLARATION OF DOUGLAS HAYES

Douglas Hayes states as follows under penalties of perjury:

A. Background

1. I am currently employed by Stone & Webster, Inc. - a Shaw Group Company as a Civil Design Engineer. I am providing this declaration in support of a motion for summary disposition of Contention [Southern Utah Wilderness Alliance] SUWA B (SUWA B) in the above captioned proceeding to evaluate a potential alternative alignment for the Low Corridor rail line on the west side of Skull Valley and to show that the alternative will have more environmental impacts and will cost more than the currently proposed Low Corridor alignment.

2. My professional and educational experience is summarized in the curriculum vitae attached as Exhibit 1 to this declaration. I have extensive experience with civil engineering and design requirements of site and corridor development. My experience with Stone & Webster include access and site road design of asphalt, concrete and gravel roads, including earthwork, structural and drainage considerations; railroad loading, unloading and transportation for heavy and light rail; and site development on a variety of projects. I have more than 40 years experience in surveying and engineering civil projects. Prior to joining Stone & Webster, I worked for the U.S. Geological Survey in the Rocky Mountain Region for eight years performing geodetic surveys. I also worked

for consulting engineering firms in Colorado for ten years on various surveying and civil engineering projects. I owned and operated my own surveying business in Colorado for approximately two years.

3. I am Lead Railroad Design Engineer on the PFS project. I am responsible for the layout and development of construction drawings and railroad construction specifications for the new railroad alignment from the proposed PFSF storage site to a interconnect with the Union Pacific Railroad at Low Junction, in Utah.

B. Contention

4. Contention SUWA B asserts that

The License Application Amendment fails to develop and analyze a meaningful range of alternatives to the Low Corridor Rail Spur and the associated fire buffer zone that will preserve the wilderness character and the potential wilderness designation of a tract of roadless Bureau of Land Management (BLM) land—the North Cedar Mountain—which it crosses.

<u>Private Fuel Storage, L.L.C.</u> (Independent Spent Fuel Storage Installation), LBP-99-3, 49 NRC 40, 53, <u>aff'd</u>, CLI-99-10, 49 NRC 318 (1999). The contention was admitted so far "as it seeks to explore the question of alignment alternatives to the proposed placement of the Low Junction rail spur." LBP-99-3, 49 NRC at 53.

C. The Low Corridor Rail Line

5. The proposed Low Corridor rail line is described in sections 3.2.1.5 and 4.4 and Figure 3.2-2 of the PFS Environmental Report (ER). The rail line will be constructed to connect the PFSF directly to the Union Pacific mainline railroad at Low Junction, Utah. The single track line will be approximately 32 miles long and will run from the mainline on the south side of Interstate 80 at Low. From the mainline at Low, the rail line will proceed southeast parallel to Interstate 80 for approximately 3 miles, then turn south along the western side of Skull Valley for approximately 26 miles, and then turn east for approximately 3 miles to the PFSF. Associated sidings will be located at the PFSF and near Low Junction. ER at 3.2-6,.

6. The rail line will be built using conventional construction practices. A 200-foot wide right-of-way for construction of the rail line would temporarily remove or disturb about 776 acres of greasewood and desert shrub/salt brush habitat. A 200-foot wide corridor is necessary to operate the rail line to the PFSF site. ER at 3.2-6. The approximately 40-foot wide railroad ballast and sub-ballast within the corridor will be maintained free of vegetation to provide a buffer zone to reduce the potential for range fires that might be started by the railroad. The elevation of the rail line will be close to grade so as to facilitate its crossing by emergency fire vehicles. Id. at 4.4-13. After construction 621 acres of land will be actively revegetated with appropriate naturally occurring species and restored to its prior condition; thus, approximately 155 acres of land will be permanently altered by the rail line. Id. at 4.4-1.

7. At the siding next to the Union Pacific mainline at Low Junction, the maximum acceptable railroad grade (<u>i.e.</u>, slope) is 0.4% and zero grade is the preferred condition. This requirement is to minimize effort and risk during train switching operations and to ensure that cars uncoupled from their locomotive can be held by setting their brakes. The rest of the rail line cannot have a grade that exceeds 1.5%. Maximum rail line grade is set based on the best fit of locomotive tractive effort and horsepower. For example to start a PFSF train on the maximum 1.5% grade requires two locomotives weighing in excess of 100 tons each, which would convert to 1,500 hp locomotives. However to move this same train on a 1.5% uphill grade at 25 MPH requires a minimum of 5,200 horsepower. The 1.5% maximum grade is set to enable PFS trains to move at a reasonable speed.

8. The alternative alignment on the west side of Skull Valley has been laid out using the same typical track section as the proposed alignment, no more than 40 feet wide at the top of the subgrade, 24 feet wide at the top of subballast, and 10.5 feet wide at the top of the ballast section. The same design basis for the proposed alignment in the horizontal and vertical direction (for example, a minimum horizontal curvature of 3 degrees, (1,908 ft. radius) and vertical grade changes using the same rate of change as the

proposed alignment), have been used to create the alternate alignment. Drawing DY-SK-19-A is attached as Exhibit 2 and is an overall alignment plan that shows both the proposed alignment and the alternate alignment. Drawing DY-SK-20-A, Exhibit 3, shows cross sections along the alignment and graphically indicates the amount of cut or fill at various Stations. Exhibit 4 is another map providing an overview of the rail alignments and the region around the NCMA.

D. The North Cedar Mountains Area

9. The North Cedar Mountain (NCM), which SUWA purports is suitable for consideration as wilderness, is located at the northern end of the Cedar Mountains. Caitlin 2d Decl. (Dec. 8, 1998). It is a rough polygon about 5.5 miles wide by 7 miles long. The proposed rail line would run through the eastern edge of the NCM area traversing a small segment at most a half mile wide and four miles long. See Exhibits 2 and 4.

E. Alternative Alignments for the Low Corridor Rail Spur Along the West Side of Skull Valley but Further East of North Cedar Mountains

10. PFS considered an alternative alignment that does not cross the NCM area but rather passes just to the east of it. <u>See</u> Exhibits 2 and 4. The alternative follows the proposed Low Corridor rail line parallel to I-80 for about three miles, but at the curve south would turn less sharply so the alternative rail line would proceed more to the east than the proposed rail line. After proceeding southeast for about two miles, the alternative rail line would curve south just east of the eastern edge of the NCM area (which is bounded by a jeep road) and just west of a parcel of land owned by the State of Utah. The alternative rail line would parallel the eastern edge of the NCM area (the jeep road) for about three miles. At that point, the edge of the NCM area turns southwest and so would the alternative rail line alignment. After a mile heading southwest, the alternative alignment would rejoin the proposed alignment somewhat south and east of

the NCM area. The net result is the alternative rail line would be about 2,000 to 3,000 feet east of the alignment of the proposed rail line for about 6.5 miles.

11. Pushing the horizontal alignment of the Low Corridor rail line about 2,000 to 3,000 feet east presents challenges in that its location is constrained by two narrow gaps on BLM land through which it must pass that are not encountered by the alignment as it is currently proposed. The first gap is at the northern end of the alternative alignment; it must pass east of the NCM area but stay west of the parcel of land owned by the State of Utah. The second gap is at the southern end of the alternative alignment; it must not go too far east to avoid the large mud flat (<u>i.e.</u>, wetland) in the middle of Skull Valley before rejoining the proposed rail line alignment.

12. In terms of earthwork (i.e., cut and fill) and ignoring the first mile of corridor which will generate a large "spoil" pile at Low Junction, the remaining 31 mile length of the proposed Low Corridor rail line alignment has a balance, that is material removed to level the rail road bed ("cut") approximately equals material added ("fill"). On the other hand, because of its constrained location, the alternative alignment heads over terrain that falls at a steeper grade than the maximum acceptable grade for the PFS rail line. Thus, the alternative alignment requires additional fill material to maintain a grade that is manageable by the PFS trains as it threads its way through the two narrow gaps. See Table 1 for a summary of the grades along the alternative alignment.

13. The first challenge starts when the proposed rail line curves south away from paralleling I-80. The hill in this area slopes down toward the east at a sharper grade than the maximum permissible grade of the rail line. The proposed route avoids this problem by making a sharper curve so the rail line runs more toward the southwest and can follow the contours of the land. The alternative, on the other hand, must go more to the southeast to avoid the NCM area. Along the first two miles of the alternative alignment, the elevation of the ground decreases about 175 feet, which is approximately the theoretical maximum grade the rail line could descend. In fact, the rail line is constrained from decreasing elevation that rapidly due to the hill's naturally undulating

contour; only an average grade of about 1.33% can be achieved compared to a maximum permissible of 1.5%. To account for this contour, the alternative alignment requires fill throughout almost all of its two mile length. In fact, the construction requires the rail line to be built on a berm varying in height up to 20 feet. Only over a few hundred feet is any cut (i.e., removal of earth) is required over the two mile descent.

This challenge is made more complex as that the rail line must thread the 14. narrow gap between the jeep road that bounds the NCM area and the land owned by the State of Utah near the northeastern corner of the NCM area as shown in Exhibits 2 and 4. The proposed rail line avoids this challenge by staying further west of the State land and following the hill's natural contours. The alternative alignment is constrained to pass through a gap that is quite narrow and restricting for a railroad corridor. The gap between the jeep road and the western boundary of the State land at the point where the alternative alignment would enter the gap is approximately 500 feet wide.¹ Since the elevation of the alternative alignment is still about 15 feet above the ground at this point (because of the need to maintain steady descents, which average about 1.33% in grade), there must be fill added to construct a berm about 20 feet high. This amount of fill requires a right of way (ROW) of approximately 300 feet wide, to allow the earthen berm to be self-supporting, plus 50 feet on each side of the ROW for temporary construction easement. The rail line must be laid out with a total ROW width of 400 feet to fit through a gap that may be no more than 450 feet wide.

15. Running a rail line through the gap between the jeep road and the State land imposes vertical constraints as well as tight horizontal constraints. In addition to constraints on horizontal alignment requiring the rail line to fit through a gap with as little as 50 feet of margin, the vertical alignment of the alternative decreases about 175 feet along its first two miles. As the average grade that can be achieved is about 1.33%, the

The 500 foot distance is scaled from 1"=2,000' USGS 7 ½ Min. Topographic Map with a margin of error approaching 10%.

rail line only descends about 160 feet. Consequently, the rail line would be built at the top of an earthen berm that would be constructed on what is naturally a hill sloping downward to the east. The alternative rail line would be about 17 feet above the uphill side and closer to 25 feet above the downhill side. The roughly two story berm where the alternative rail line crosses the jeep road here, as the road turns away from the NCM area, is an imposing obstacle to use of the jeep road. Approximately 1,100 feet of the jeep road will have to be realigned horizontally and vertically to make a crossing at this location. Approximately 450 feet in a northeasterly direction and approximately 650 feet in a southerly and westerly direction. The maximum vertical grade used for the jeep road relocation would be 6%. Because of the location of the jeep road, its relocation would require approval from the State of Utah. The proposed alignment avoids this problem as it follows the hill contours; where the proposed alignment crosses the jeep road further south, the crossings can be at existing grade.

16. The second challenge is presented by another narrow gap at the southern end of the alternative railroad alignment, where the alternative alignment stops paralleling the jeep road. At that point, the jeep road turns west, as the portion of SUWA's NCM area that would be cut off by the proposed PFS rail line alignment ends. The alternative alignment is then free to rejoin the proposed alignment and continue south to the PFSF. The narrow gap is created because the alternative alignment runs within two tenths of a mile of the western edge of the large mud flats that cover the center of Skull Valley. In other words, the alternative alignment must run between the jeep road and the mudflats.

17. At this point, the elevation of the proposed rail line alignment is approximately 100 feet higher than the alternative alignment. Under ideal topography, this requires a minimum of 6,700 feet to get to the proposed rail line alignment elevation at the maximum permissible grade of 1.5%. However, the actual topography is undulating and the alternative rail line alignment follows the hill contour with a steady 1% rise for 6,000 feet. Following the hill contour minimizes the amount of fill needed

and minimizes the impacts of this alternative alignment. Over the last mile the alternative rail line first falls and then rises with the bumpy hill contour at the maximum grade of 1.5 %, finally rising at 0.26% for the last 800 feet to match up with the proposed rail line alignment. Even incorporating the maximum rate of rising and falling in rail line elevation over the last mile, considerable fill is still required to build earthen berms as high as 20 feet over the last mile to avoid exceeding the maximum allowable grade.

18. In order to produce a workable horizontal alignment, as described above, the total length of the realignment turns out to be approximately 6 miles. This reflects following the topography as much as possible while threading the narrow corridors near the northern and southern ends of the alternative alignment section. Because of the constraints caused by these narrow corridors and their associated elevations, the great majority of the six miles is built on fill. See Table 1.

19. Conservatively, to minimize any potential for water to damage the railroad bed, the alternative railroad alignment maintains a vertical alignment approximately 3 to 5 feet above flat grade. This height is considered as a minimum in order to engineer a suitable base for the railroad bed. The impact of this conservatism is to slightly increase the amount of fill as more fill is required in a few spots (where the railroad would run across flat grade) to maintain this height. This increase is small since most of the alternative alignment is built on fill anyway. Where fill is required to maintain grade in the first place, which is over the course of most of the alternative alignment, no extra fill is required for this function.

20. Ignoring the "spoil" pile (300,000 cy.) at Low Junction in the first mile, the proposed remaining Low Corridor 31-mile railroad alignment has a balance of earth work, that is material cut approximately equals fill. The alternative railroad alignment, over its 6-mile length, requires a net of approximately 560,000 cubic yards of fill. This means that 560,000 cubic yards of fill material would need to be imported from another location to build the alternative. The Low Junction "spoil" pile could be used for 56% of the required fill. After laying out the route of the rail line, all earthwork calculations

were developed from 3D digital models using the Inroads computer program. This program is commonly used by civil engineers for the purpose of designing linear features, such as roads and railroads, along with site grading and drainage.

21. The railroad siding for the PFS rail line constructed at Low Junction as under the current proposal, would have a surplus of cut material at the Low Pass siding area of approximately 300,000 cubic yards. As proposed, this material would be added to the natural contours around the siding and stabilized with vegetation. If the alternative rail line alignment were built instead, the surplus cut material could be used for fill on the alternative rail line. This would require stockpiling the 300,000 cubic yards of material, protecting the pile to control fugitive dust emissions, and require moving the material 3 to 9 miles from the Low Pass siding area to the locations needing the fill, which would make the alternative more expensive. In addition, the balance of any material not coming from the Low Pass siding area would need to be imported from an offsite location; <u>i.e.</u>, about 260,000 cubic yards. This would increase the cost of the alternative further. The cost estimate below does not consider the delay and disruption for hauling the fill used for the alternative and so is probably an underestimate.

22. The alternative rail line alignment would increase the costs of constructing the rail line by as much as \$5 million, driven primarily by the costs of additional effort associated with the need for more fill. This cost would include loading, hauling, and installing the fill from the Low "spoil" pile and procuring, loading , hauling, and installing additional fill (260,000 cy) from a location within 50 miles of the alternate route.

I declare under penalties of perjury that the foregoing is true and correct. Executed on June **28**, 2001.

al Haye

TABLE 1

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SUMMARY OF PROFILE OF ALTERNATIVE RAIL LINE SEGMENTS

Distance from	Grade of Climb	Length of segment	Berm height over this
Low Junction	[negative	that is the distance	segment (to the closest 5
where each grade	number is	the grade is	foot increment)
change starts	falling grade]	maintained	[negative height indicates
(feet to the		(feet to the nearest	a cut]
nearest hundred)		hundred)	
14,400	-1.11%	3100	0 to 15 feet
17,500	-1.5%	3700	15 to 20 to 0 feet
21,200	-1.34%	7200	0 to -5 to 0 to 20 to 5 feet
28,400	+0.34%	1900	5 to 0 to 5 feet
30,300	-0.66%	2700	5 to 10 to 5 feet
33,000	+0.56%	1800	5 to 10 feet
34,800	flat	2200	10 to 0 feet
37,000	+0.99%	6000	0 to 10 to 0 feet
43,000	-1.5%	1500	0 to 10 feet
44,500	+1.5%	3200	10 to 20 feet
47,700	+0.26%	800	20 to 0 feet

Hayes Exhibit 1

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Douglas W. Hayes

Experience Summary

Mr. Hayes is a Civil Design Engineer in the Denver office of Stone & Webster Inc. He joined Stone & Webster in 1980 and is responsible for civil engineering and design requirements of site and corridor development. His assignments include access and site road design of asphalt, concrete and gravel roads, including earthwork, structural and drainage considerations, railroad loading, unloading and transportation for heavy and light rail and site development on a variety of projects. He has more than 40 years experience in surveying and engineering civil projects. Prior to joining Stone & Webster, Mr. Hayes worked for the U.S. Geological Survey in the Rocky Mountain Region for eight years performing geodetic surveys. Mr. Hayes also worked for consulting engineering firms in Colorado for ten years on various surveying and civil engineering projects. He owned and operated his own surveying business in Colorado for approximately two years.

Education

Industrial Engineering - (Course Work - No Degree) Fresno City College, Fresno, California

Licenses, Registrations, and Certifications

Certified Engineering Technician - 1968 Registered Land Surveyor - Colorado - 1971

Experience History

STONE & WEBSTER ENGINEERING CORPORATION, DENVER, COLORADO (JUN 1980 – PRESENT)

Private Fuels Storage Facility, Skull Valley, Utah (May 2000 – Present)

As Lead Railroad Design Engineer responsible for the layout and development of construction drawings and railroad construction specifications for the new railroad alignment from the proposed PFSF storage site to a interconnect with the Union Pacific Railroad at Low Pass, in Utah. Comprising a total length of approximately 32 miles and maximum vertical grades of 1.5%.

Great River Energy, Pleasant Valley Station, Minn. (Jan 2000 – May 2000)

As Lead Civil Design Engineer responsible for the layout and development of construction drawings for a new peaking power station located in Minnesota. Developed site access road, on site roads, grading and drainage including calculations and construction specifications.

Monticello, Martin Lake and Big Brown Stations, Texas Utilities (Jun 1996 – Jan 2000)

As Lead Civil Design Engineer developed bypass and unloading loop for switching fuel delivery from existing 14 car lignite trains to proposed 140 car Powder River Basin coal trains for the three generating stations. Provided cost studies, traction studies and unloading time line studies for unloading 140 car unit coal trains at the three stations. The projects included railroad plans, site plans, calculations, drainage and realignment of existing roads, including the crossing of Interstate 45 with a new rail line.

Monticello - North Interchange, Texas, Utilities (Apr 1996 – Jan 1997)

As Lead Civil Design Engineer responsible for the layout and development of construction drawings for approximate 2 mile spur track connecting Southern Pacific Railroad with existing TU track to allow receiving Western coal unit trains at Monticello Station. Project includes construction drawings, construction specifications, grading and drainage.

Northern States Power Company, Mescalero, New Mexico (Feb 1996 - Apr 1996)

As Lead Civil Design Engineer provided conceptual railroad routing from existing SP mainline to several sites under consideration for independent spent fuel storage site on or near the Mescalero Indian Reservation in New Mexico. The railroad spur was to accommodate heavy rail loads having grades of $2\% \pm$ over lengths of 2 to 10 miles and considered grading and drainage.

Northern States Power Company, Goodhue County, Minnesota (Nov 1995 - Feb 1996)

As Lead Civil Design Engineer developed rail spur of approximately 2 miles from existing CTX mainline to independent spent fuel storage site for Prairie Island Nuclear Generation Plant. Mr. Hayes performed the necessary alignment, grading and drainage calculations and produced design drawings for submission to the NRC.

Stanton Station, Ash Haul Rosa, United Power Association (May 1995 - Oct 1995)

As Lead Civil Design Engineer, Mr. Hayes was responsible for the final design and grading of an Ash loading loop road and Ash Haul Road capable of handling CAT 773B off highway trucks. The loaded gross weight of this vehicle is approximately 186,000 lbs with approximately 125,000 lbs on the rear axle. The design period was 20 years, and the design included crossing of 2 existing railroad spurs, 13 buried utilities, the design of a concrete road crossing at an existing main access road to an adjacent power plant. The design also included the surface drainage features along the haul road alignment.

Hampton Corners Mine Site, Akzo Nobel Salt, Inc. (Dec 1994 - May 1995)

As Lead Civil Design Engineer, Mr. Hayes was responsible for the conceptual layout and design of the surface facilities of a new salt mine and processing facility. His area of responsibility included roads and access, site grading, railroad access, loading and car storage for 100 car unit trains, surface runoff detention highway access improvements and building, parking, working and storage pad development. All design and drawings for the site work was created using AutoCad and ADCADD.

Tesla Hydroelectric Project, City of Colorado Springs (Jun 1994 - Dec 1994

As Lead Civil Design Engineer, Mr. Hayes was responsible for development of an AutoCad, AdCADD final design of a 15 acre regulating reservoir and approximately 0.85 mi of access and maintenance roads in a mountainous area. The grading design includes a balanced earthwork scheme for the 250,000 cubic yards of earthwork excavation.

Banfield LRT System Improvements, Tri-County Metropolitan Transportation District of Oregon (Nov 1993 - Jun 1994)

As Lead Civil Design Engineer, Mr. Hayes' responsibilities include design of two and one-half miles of double tracking for an existing light rail transit system mainline. The work includes preparing horizontal and vertical alignments using AutoCad and preparing special trackwork details. He is also responsible for design of an expansion to an existing maintenance and storage yard.

Three - 750 MW Coal-Fired, Navajo Generating Station, Salt River Project (Aug 1993 - Oct 1993)

As Lead Civil Design Engineer, Mr. Hayes supervised final design of site preparation for the addition of scrubbers to the three - 750 MW coal-fired Navajo Generating Station. The work included modifying one mile of Arizona State Highway 98, upgrading three existing intersections, and adding one new

intersection. The work also included site grading and layout and design of on-site plant roads. He was responsible for coordinating and interfacing with the Arizona Department of Transportation

Thompson Falls Hydroelectric Project, Montana Power Company (May 1993 - Aug 1993)

As Lead Civil Design Engineer, Mr. Hayes supervised final design of an Intergraph CAD grading, dredging, drainage design for a new 50 MW powerhouse at Thompson Falls Hydroelectric Plant. Grading included removal of 100,000 cubic yards of rock excavation, including one-quarter mile of river channel tailrace excavation, using a current diversion dike. Tailrace excavation was accomplished using a moving rockfill work pad.

Keahole Combined Cycle Project Company, Hawaiian Electric Light Company (Jan 1993 - Apr 1993)

As Civil Design Engineer, Mr. Hayes provided final design of an Intergraph CAD grading and drainage design for a two-unit expansion of the existing Keahole power plant site. Design included site grading, site roads, and site drainage, including storm water detention and stormwater reinjection.

NO_x Abatement Project, Idaho National Engineering Laboratory (Sep 1992 - Dec 1992)

As Civil Design Supervisor, Mr. Hayes supervised final design of an AutoCad grading, excavation, and draining design for a NO_x abatement process at an existing site, including grading, excavation, utility relocation, emergency fire access, and ammonia storage on a very congested area of Idaho National Engineering Laboratory.

Rosario Dominicana, Dominican Republic (Jun 1992 - Aug 1992)

As Civil Design Supervisor, Mr. Hayes supervised preliminary design of an 85 million metric tonne per year tailings reservoir, decant reservoir, drainage diversion system, drainage capture and treatment system, and drainage capture around a planned, expanded open pit mining operation. The total area was 1241 hectors with drainage to handle 14.5 million cubic meters of annual runoff. All design and drawings were produced using Microstation, Version 4.0, and Inroads/Insite, Version 4.

Pathfinder Combined Cycle Expansion, Northern States Power Company (Apr 1992 - Jun 1992)

As Civil Design Supervisor, Mr. Hayes supervised final design of an Intergraph CAD grading and drainage design for a combined cycle facility on the existing Pathfinder generation site. All civil design and construction drawings were produced using Microstation, Version 4.0. and Inroads/Insite, Version 4.0. They included site grading, drainage, road improvements, contractors parking and laydown, and wetlands improvement areas.

Prairie Island Nuclear Generation Plant, Northern States Power Company (Feb 1992 - Apr 1993)

As Civil Design Supervisor, Mr. Hayes supervised Intergraph CAD civil design of an independent spent fuel storage installation site at Prairie Island Nuclear Plant. The design included grading and drainage, 18-foot high, earth protection berms, spent fuel cask transport vehicle access road, security fencing, and drainage from the site to existing off-site drainage facilities.

Healy Clean Coal Project, Alaska Industrial Development and Export Authority (Aug 1991 - Feb 1992)

As Civil Design Supervisor, Mr. Hayes supervised final design of an Intergraph CAD grading and drainage site design for a second unit at the Healy Power Plant site. The design included excavation, grading and drainage, bottom ash settling pond, fly ash haul road, new access road, and plant parking lot.

Thompson Falls Hydroelectric Project, Montana Power Company (Oct 1991 - Apr 1992)

As Civil Engineer, Mr. Hayes performed Intergraph CAD grading and quantity development for a detailed cost analysis of a proposed 50 MW second powerhouse at Thompson Falls Power Plant. All civil design and drawings were produced on an Intergraph 32C workstation, using Intergraph's Insite/Inroads civil design program. Work consisted of intake excavation, tailrace excavation, cofferdam quantities, powerhouse excavation, access road, and development of powerhouse concrete quantities.

Miscellaneous Architect/Engineer Services, Lowry Air Force Base (Jun 1991 - Oct 1991)

As Civil Design Supervisor, Mr. Hayes coordinated mapping, surveying, CAD design, and manual design drafting of a relief storm sewer line approximately two miles in length for a portion of Lowry Air Force Base.

Engineering Design Services, Department of Defense (Jun 1991 - Oct 1991)

As Civil Design Supervisor, Mr. Hayes supervised final design of Intergraph CAD grading and drainage design of a site for a 17,000 square foot warehouse addition. Design included grading and drainage, excavation of old landfill trash under structure, concrete access road design, asphalt POV parking, and vehicle staging area.

Public Utility District No. 2 of Grant County, Washington (Mar 1991 - Apr 1991)

As Civil Design Supervisor, Mr. Hayes used Intergraph's site design program and Interview 32C workstation to three-dimensionally model a hydro turbine blade from manufacturer's supplied information. He was responsible for extracting cross sections at specific locations to analyze potential surface wear problems of in-service blades.

Steamboat Hills Geothermal, Yankee-Caithness Joint Venture (Dec 1990 - May 1991)

As Civil Design Supervisor, Mr. Hayes supervised Intergraph CAD civil design of the site work for a geothermal site near Reno, Nevada. All design and drawings were produced on Intergraph Interview 32C workstation, using Microstation and Inroads/Insite software packages.

Bradley Lake Hydroelectric Project, Alaska Energy Authority (Dec 1990 - Apr 1991)

As Civil Design Supervisor, Mr. Hayes supervised Intergraph CAD civil design of a rehabilitation contract, including waterfowl nesting area, fish rearing area, and construction camp rehabilitation.

Engineering Design Services, Department of Defense (Sep 1990 - Dec 1990)

As Civil Design Supervisor, Mr. Hayes supervised Intergraph CAD grading and drainage design of two warehouse sites. One was a general purpose warehouse of approximately 101,000 square feet, and the other was a warehouse addition of approximately 17,000 square feet. Design included grading and drainage, new road design, tank road relocation, and parking.

Thousand Springs Project Unit No. 1, Great Basin Energy (Jan 1990 - Aug 1990)

As Civil Design Supervisor, Mr. Hayes supervised Intergraph CAD civil design of the site work for a coal-fired power plant site near Wells, Nevada. All design and drawings were produced on Intergraph Interview 32C workstation using Microstation and Inroads software packages. Design included grading and drainage for a 160 acre plant site, 14-mile main access road, five miles of plant site roads, 14 mile railroad spur for unit train delivery of coal, evaporation ponds, and ash disposal area.

Colorado River Water Supply, Unocal (Sep 1989 - Nov 1989)

As Civil Design Supervisor, Mr. Hayes supervised Intergraph CAD grading and drainage design of a 14-acre site to accommodate two settling ponds, site access road, and electrical substation. In addition two 5-acre sites located at an existing oil shale processing plant site were designed to accommodate mobile water filter units, access road, backwash pond, and surge basin.

Denver International Airport, City and County of Denver (Dec 1988 - Aug 1989)

As Lead Civil Engineer, Mr. Hayes was responsible for civil design of Runway 8L-26R site preparation for the new Denver International Airport. The area designed included the main terminal and parking area, a three concourse configuration apron area, Ramp Taxiways K, M and Q, Parallel Taxiway J, Crossfield Taxiways XT-5, XT-4, and XT-H, along with Runway 8L-26R and Parallel Taxiway 3. All design and drawings were done on a VAX 8550 Intergraph CAD system using ESP software. Earthwork volume calculations generated by the Intergraph system were checked using a 80386 PC with DCA V10 software. All construction drawings were translated using a VAX based OCTAL translator to an Autotrol Series 5000 Apollo system per client requirements.

Additionally, Mr. Hayes provided a mass earthwork balance for the entire Phase I Airport Project

(approximately 20 square miles), which included six runways, all associated taxiways, maintenance and support area, terminal area, and concourse-apron area. The total earthwork volume for Phase 1 is approximately 113,000,000 cubic yards.

Teberebie Goldfield Ltd. (Jul 1988 - Nov 1988)

As Civil Design Supervisor, Mr. Hayes supervised Intergraph CAD civil design of a new open pit gold mining operation in Ghana, Africa. The design included location and grading for a 19-unit family housing area and mess hall. Also included was location and grading of separate sites for an administration and office building with a helicopter landing pad, a maintenance facility, and grading for a 5000 metric ton per day ore crushing plant. In addition, 6200 meters of 9-meter wide access roads and 1600 meters of 24-meter wide heavy vehicle maintenance and ore hauling road was designed using Intergraph's ESP package.

Southern Pacific Railroad Spur, Lower Colorado River Authority (Nov 1987 - May 1988)

As Lead Civil Engineer, Mr. Hayes was responsible for civil effort of a five route alignment study and CAD-produced preliminary civil design of two twenty-mile rail alignments connecting the Southern Pacific main line near La Grange, Texas with an existing rail unloading loop at Fayette Power Plant.

Salton Sea Unit 3 Geothermal Power Project, Unocal (Mar 1987 - Nov 1987)

As Civil Design Supervisor, Mr. Hayes was responsible for civil design of the plant site for a geothermal power plant. Site drawings for this project were produced on the Intergraph CAD System.

Bear Canyon Geothermal Power Project, Freeport (Jun 1986 - Jan 1987)

As Civil Design Supervisor, Mr. Hayes was responsible for civil design of the plant site for a geothermal power plant, including site grading, site drainage, and site access. Design of this plant site was created on the CAD system utilizing IGDS, digital terrain modeling, and earthwork software.

Land Base Mapping, City of Aurora, Colorado (Jan 1987 - Feb 1987)

As Civil Design Supervisor, Mr. Hayes was responsible for a test project creating CAD-produced base maps for the Public Works Department. Input data was client-supplied recorded subdivision plats and engineering drawings. The graphics files were created using customized Land Base Mapping software to produce a series of base maps for various public works departments.

Land Base Mapping, Salt River Project (Nov 1986 - Dec 1986)

As Civil Design Supervisor, Mr. Hayes was responsible for creating Intergraph CAD files from clientsupplied planimetric mapping, including recorded subdivision plats, quarter-section assessor's maps, address and street name plats, city street maps, and aerial photography. Graphics files were created using customized Land Base Mapping software to produce a series of base maps for various utility uses. Assessor's Mapping, Town of Winchester, Connecticut

(Apr 1986 - Aug 1986)

As Civil Design Supervisor, Mr. Hayes was responsible for creating Intergraph CAD files from a combination of stero-digitized data and planimetric base maps to produce assessor maps in and around Winchester, Connecticut.

Cloverdale-Geysers Road Improvement, Central California Power Agency (Sep 1985 - Apr 1986)

As Civil Design Engineer, Mr. Hayes was responsible for civil design of highway improvements to two and one-half miles of existing Sonoma County Highway to eliminate substandard alignment conditions. Ramsey/Washington Waste to Energy Project, Northern States Power Company (Jan 1985 - Aug 1985)

As Civil Design Engineer, Mr. Hayes was responsible for civil engineering design of a plant site for a refuse derived fuel processing plant. The design included site access and on site roadways capable of handling 500 trucks per day, site grading, and site drainage. The design for this job was developed on Intergraph CAD using IGDS graphics.

Coldwater Creek Geothermal Power Plant, Central California Power Agency (Mar 1984 - Jan 1985)

As Civil Design Engineer, Mr. Hayes was responsible for civil engineering design of a 13-acre plant site for a geothermal power plant, including site grading, site drainage, and site access. Approximately one-half of the civil drawings on this job were developed on the CALMA CAD System.

Aidlin Geothermal Project, Geothermal Resources International (Jul 1984 - Sep 1984)

As Civil Design Engineer, Mr. Hayes was responsible for civil engineering design of a 3-acre plant site for a 12.5 MW geothermal power plant in a mountainous region of California, including site grading, site drainage, and site access.

Fluid Gas Desulfurization Retrofit Project, Wyodak (Feb 1984 - May 1984)

As Civil Design Engineer, Mr. Hayes was responsible for civil engineering design of site modifications to an existing plant site to accommodate installation of a flue gas scrubber, including new roads, site grading, and site drainage.

Salem Station, Montana Power Company (Nov 1983 - Jan 1984)

As Design Engineer, Mr. Hayes was responsible for supervision of preliminary civil engineering design of nine miles of railroad and the relocation of approximately one-half mile of county road.

Biomass Combined Cycle Power Plant, OPC Bio-Energy Corporation (Jun 1983 - Jul 1983)

As Design Engineer, Mr. Hayes was responsible for supervision of civil engineering design of the plant site and main access road.

Sage Point, Dugout Canyon Project, SUNEDCO (Oct 1982 - Jan 1983)

As Lead Civil Engineer, Mr. Hayes was responsible for supervision of the preliminary civil engineering design of twelve miles of railroad, railroad loading loop, and site grading of central facilities area. He also supervised preparation of the plant area, raw coal and clean coal storage areas, two mine portal areas, and one portal area being capable of supporting facilities for miners and equipment to mine 6.7 million tons of coal per year. In addition, he was responsible for preliminary design of 16 miles of main access and maintenance roads to service portal areas and refuge disposal areas.

Western Fuels Project (Jun 1980 - Jan 1983)

As Design Engineer, Mr. Hayes was responsible for supervision of civil engineering design of three and one-half miles of overland conveyor pad and maintenance road, site grading around transfer buildings, site grading of slot coal storage area, and civil design of 35 miles of electric railroad, railroad loading loop, and maintenance facility area.

Sacramento Municipal Utility District Geothermal Project (Jun 1980 - Jun 1981)

As Design Engineer, Mr. Hayes was responsible for design of the main access road approximately two miles long through a mountainous region.

Southeast Project, Public Service Company of Colorado (Jun 1980 - Apr 1982)

As Design Engineer, Mr. Hayes was responsible for supervision of civil engineering functions of the plant site and a 2-mile railroad unloading loop, access roads, etc.

Hayes Exhibit 2

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Hayes Exhibit 3

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Hayes Exhibit 4

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Exhibit C

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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

Before the Atomic Safety And Licensing Board

In the Matter of)	
PRIVATE FUEL STORAGE L.L.C.)	Docket No. 72-22
(Private Fuel Storage Facility))	ASLBP No. 97-732-02-ISFSI

DECLARATION OF SUSAN DAVIS

Susan Davis states as follows under penalties of perjury:

A. Background

- I am currently employed by Stone & Webster, Inc. a Shaw Group Company, as an Senior Environmental Scientist. I am providing this declaration in support of a motion for summary disposition of Contention [Southern Utah Wilderness Alliance] SUWA B (SUWA B) in the above captioned proceeding to evaluate potential alternative alignments for the Low Corridor rail line and their environmental impacts and to show that the alternatives will have more environmental impacts than the currently proposed alignment for the rail line.
- 2. My professional and educational experience is summarized in the curriculum vitae attached as Exhibit 1 to this declaration. I have extensive experience in environmental research and consulting, including providing environmental assessments for several types of construction projects, such as dams, spent fuel storage facilities, combustion turbine power plants, and pipelines and transmission lines. Environmental resource areas I have analyzed for these projects include wetlands, wildlife habitat, rare species assessments, and visual resources.
- 3. I have conducted studies analyzing environmental impacts associated with the PFSF since September of 1996, including vegetation, wildlife, threatened and endangered species. Specifically, I have assessed the impacts of PFS transportation options, including those on vegetation, wildlife, threatened and endangered species

(raptors). I am familiar with the portions of the PFS Environmental Report (ER) and the NRC Draft Environmental Impact Statement (DEIS) relevant to PFS rail transportation options. I have visited the proposed Low rail corridor and the western side of Skull Valley, Utah in the course of my work.

B. Contention

4. Contention SUWA B asserts that:

The License Application Amendment fails to develop and analyze a meaningful range of alternatives to the Low Corridor Rail Spur and the associated fire buffer zone that will preserve the wilderness character and the potential wilderness designation of a tract of roadless Bureau of Land Management (BLM) land—the North Cedar Mountains—which it crosses.

Private Fuel Storage, L.L.C. (Independent Spent Fuel Storage Installation), LBP-99-3, 49 NRC 40, 53, <u>aff'd</u>, CLI-99-10, 49 NRC 318 (1999). The contention was admitted so far "as it seeks to explore the question of alignment alternatives to the proposed placement of the Low Junction rail spur." LBP-99-3, 49 NRC at 53.

C. Environmental Impacts of Potential Alternative Alignments for the Low Corridor Rail Line Alignment

5. PFS has considered a range of alternative alignments to the Low Corridor rail line that do not cross SUWA's North Cedar Mountains (NCM) area. See accompanying Declaration of John Donnell (June 29, 2001), ¶ 5. PFS has considered a railroad alignment just east of the NCM area that would preserve the roadless character of that area, a potential alignment down the center of Skull Valley, and alignments parallel to Skull Valley Road on the east side of Skull Valley. I have evaluated the environmental impacts of the alternatives and have found that they would be greater that the impacts of the proposed Low Corridor alignment.

1. West Skull Valley Alternative

6. First, PFS has considered an alternative alignment on the west side of Skull Valley, just to the east of SUWA's NCM area, about one-half to three-quarters of a mile to the east of the proposed alignment. Declaration of John Donnell (June 29, 2001), ¶

11; Declaration of Douglas Hayes (June 29, 2001), ¶ 10. Both the proposed and the alternative alignments traverse virtually identical habitat, as both are primarily greasewood vegetation, intermixed with cheatgrass. Both alignments pass near mudflats in the lower elevations in Skull Valley to the east. The impacts of the two alignments on ecological resources generally, <u>see</u> DEIS § 5.4, are likely to be similar because of their proximity to each other. Any effects on the wildlife that uses the mudflats, and neighboring uplands, is likely to be the same for both alignments (other than the impacts of the railroad bed required to build the alternative discussed below), due to the alignments' proximity and continued avoidance of the mudflat habitat itself, although, the alternative alignment comes closer to the mudflats than the proposed alignment. The rail line is not expected to result in habitat fragmentation; DEIS §§ 5.4.1.2, 5.4.2.2; and neither the proposed nor alternative alignment would impact biodiversity. The revegetation following construction of the rail line and the firebreak created by the rail line are expected to improve, not detract from the surrounding ecosystem. DEIS §§ 5.4.1.1, 5.4.2.1.

- 7. Because of their similar design and operation, Hayes Dec. ¶ 8, and location, the proposed Low Corridor alignment and the west Skull Valley alternative alignment would have similar (small) impacts on water resources, DEIS § 5.2, air quality, id. § 5.3, socioeconomic and community resources (other than the impacts of the railroad bed outlined below), id. § 5.5, cultural resources, id. § 5.6, and recreation (other than the impacts of the railroad bed), id. § 5.8.3. As there will be no maintenance roads paralleling the proposed rail line or the alternative, no increase in access to the NCM area is expected and no increase in recreational use of or intrusion into the area is expected. Id. § 2.1.1.3. Since either railroad alignment would use the same train configuration, the proposed alignment and the west Skull Valley alternative would have similar (small) impacts in terms of human health, id. § 5.7, and noise, id. § 5.8.1.
- 8. The alternative alignment results in more significant environmental impacts primarily due to the need for about 560,000 cubic yards of fill along its six mile length. Hayes Dec. ¶ 20. This additional fill produces a railroad bed as high as

twenty feet along the alternative rail line alignment. Id. ¶ 17. This railroad bed creates obstacles where the alternative rail line crosses jeep trails. Id. ¶ 15. The railroad bed will cut off the lower elevations of the NCM area from Skull Valley for wildlife and cattle grazing. See DEIS at 5-24. The railroad bed will create a greater visual impact especially when viewed from lower elevations to the east (although the DEIS determined that the visual impact of the proposed alignment would also be "moderate" both from the Cedar Mountains to the west and from the Goshute Reservation to the east, DEIS at 5-56). By contrast, the proposed alignment follows the natural contour of the land and thus does not require the use of a high and obstructing railroad bed. Hayes Dec. ¶¶ 12-15.

- 9. The railroad bed could also restrict access for fire fighters combating wildfires in the NCM area. See DEIS § 5.8.4. The proposed alignment, by contrast, will be constructed at grade where possible to more easily provide access across the rail line. Id. § 2.1.1.3. Such wildfires pose a hazard to natural vegetation directly and indirectly as foreign invasive species like cheatgrass typically revegetate the area following a wild fire. Id. § 5.8.4. The plan for the proposed alignment promotes native species of vegetation to mitigate potential environmental impacts on vegetative resources from its construction. Id. §§ 5.4.1.1 and 5.4.5. To the extent the railroad bed of the alternative rail line alignment would inhibit fighting wild fires it would have a greater negative impact than the proposed alignment.
- Therefore, for the reasons discussed above, the alternative rail line just to the east of SUWA's NCM area would have greater environmental impacts than the proposed Low Corridor rail line.

2. Central Skull Valley Alternative

11. PFS also considered alternative alignments for the Low Corridor rail line that would run down the center of Skull Valley. Donnell Dec. ¶ 6. The northern end of Skull Valley is covered by mudflats and adjacent wetlands, which provides a specialized habitat for a variety of shorebirds and other animals. A center of the valley route would require the mudflats to be bisected by a rail line, disrupting the habitat and requiring fill. All of the mudflat habitat is classified and protected as waters of the United States under section 404 of the Clean Water Act, because of their hydrologic connection to the Great Salt Lake. It is improbable that PFS would obtain a Army Corps of Engineers permit to fill long tracts of the mid-valley mudflats when alternatives on the east and west side of Skull Valley are feasible and would not impact any wetlands or waters of the United States. 33 C.F.R. §§ 330.4(a) and (e). Alignment down the middle of the valley would only be feasible once the rail line was south of the mid-valley mud flats, which is over ten miles south of the NCM area.

- 12. Because of their similar design and operation, Hayes Dec. ¶ 8, the proposed Low Corridor alignment and the central Skull Valley alternative alignment would have similar (small) impacts on geology, minerals and soils, DEIS § 5.1, water resources (other than wetlands as described above), id. § 5.2, air quality, id. § 5.3, socioeconomic and community resources, id. § 5.5, cultural resources, id. § 5.6, and recreation, id. § 5.8.3. As either railroad alignment would use the same train configuration, the proposed alignment and the central Skull Valley alternative would have similar (small) impacts in terms of human health, id. § 5.7, and noise, id. § 5.8.1. As the proposed Low Corridor alignment would have a moderate impact on some scenic qualities both to its east and to its west, id. § 5.8.2, this alternative would be expected to have similar impacts.
- 13. Based on the significant amount of waters of the United States and wetland that would need to be filled to construct a rail line in the center of Skull Valley, this alternative alignment would have greater environmental impacts than the proposed Low Corridor alignment.

3. East Skull Valley Alternative

14. PFS considered alternative rail alignments along Skull Valley Road on the east side of Skull Valley in its 1998 transportation study and earlier versions of its ER. PFSF Transportation Study (SWEC 1998), §3.3; ER Rev. 0, § 4.4. As discussed in the transportation study and the ER, the eastern Skull Valley alternatives would have environmental impacts that the proposed Low Corridor alignment would not. <u>See</u> Donnell Dec. ¶¶ 7-10.

- 15. The proposed Low Corridor alignment and the eastern Skull Valley alternative alignments would have similar (small) impacts on geology, minerals and soils, DEIS § 5.1, water resources (other than wetlands, Donnell Dec. ¶ 9), DEIS § 5.2 and air quality, <u>id.</u> § 5.3. As either railroad alignment would use the same train configuration, the proposed alignment and the alternatives would have similar (small) impacts on human health. <u>Id.</u> § 5.7.
- 16. Based on the additional environmental impacts cited in paragraph 14 above, the eastern Skull Valley alignment alternatives are environmentally inferior to the proposed Low Corridor alignment.

4. Conclusion

17. The greater environmental impacts of the alternative rail line alignments described above make them environmentally inferior to the proposed Low Corridor alignment.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on June **29**, 2001.

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Davis Exhibit 1

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Susan J. Davis

Experience Summary

Ms. Davis has six years of experience in environmental research and consulting preparing environmental impact assessments for a variety of infrastructure development projects. She has had responsibility for preparation of impact assessments of the following resource areas: wetlands, forests, other vegetation, wildlife, fisheries and state and federally listed threatened and endangered species. She has prepared impact assessments for sites in mountain, desert, coastal, and marine environments.

Ms. Davis was responsible for field data collection, impact analysis, and preparation of sections of Environmental Resource Reports evaluating impacts of construction and operation of natural gas pipelines on wetlands, vegetation, wildlife, fisheries, and threatened and endangered species. These reports were submitted to the Federal Energy Regulatory Commission (FERC) as part of an Application for a Certificate of Public Convenience and Necessity and to state agencies as part of the permitting of state regulated activities. Ms. Davis has participated in alternatives analysis for new natural gas pipeline routing, including performing wetland function and value assessments.

On behalf of the FERC, Ms. Davis has prepared terrestrial resource and endangered species sections of Environmental Assessments (EA's) and Environmental Impact Assessments (EIS's) for relicensing or compliance actions on a dozen hydroelectric projects located throughout the U.S. Ms. Davis also prepared biological assessments for Section 7 consultation under the Endangered Species Act.

Ms. Davis has been responsible for evaluating ecological impacts of construction and operation of two interim spent fuel storage installations (ISFSI's) and preparing an Environmental Report for submittal to the Nuclear Regulatory Commission (NRC). She developed breadth of understanding of the scope of submittals required by the NRC for two very different (private vs. commercial) types of projects in different states (Utah vs. Minnesota) with different biological communities.

Other environmental permitting experience includes assisting in the preparation of Environmental Notification Forms (ENF's), Draft Environmental Impact Reports (DEIR's), Army Corps of Engineers Section 404 permit applications, and applications for Water Quality Certification (WQC) for public and private clients. She has also been responsible for the preparation of Notice of Intents (NOIs) for state wetlands permits for construction bridge repair construction projects.

Ms. Davis's field work experience includes wetland delineations, wildlife habitat evaluations, and wetland function and value assessments using the Corps of Engineers Highway Methodology and Vermont ANR methodology. She also participated in rare species surveys for reptiles, amphibians and insects. This field work was performed to support state and federal permit applications for proposed natural gas pipelines and compressor stations. Additional field work



includes site visits for relicensing hydropower projects on behalf of FERC and transportation corridor evaluation studies for a nuclear spent fuel facility.

Education

B.S., Wildlife Management - Univ. of New Hampshire - 1995

Training

OSHA 40 hour HAZWOPER training, Institute for Environmental Education - December 1997 Annual 8 Hour Refresher OSHA 8 Hour Supervisor training, April 1998 FERC Environmental Report Preparation Course, Washington D.C. - 1996

Experience History

STONE & WEBSTER ENGINEERING CORPORATION, BOSTON, MASSACHUSETTS -1995 TO PRESENT

Sumpter Combustion Power Plant, Sumpter Township, Michigan First Energy Corporation (May 2000 to Present)

Responsible for the wetland permitting for this simple cycle combustion turbine power plant. Conducted wetland delineations using the Army Corps Methodology for the 15 acre site, adjacent transmission corridor, and bisecting stream. Coordinated with the Michigan Department of Environmental Quality to prepare, submit and obtain approval for a Joint (State of Michigan and Army Corps) wetland permit. Attended and presented the project at public meetings.

Designed a 1 acre wetland replication area to provide mitigation for filled wetlands. Created finished and sub-grade designs along with planting plans for both the wetland replication area and stormwater detention basins. Oversaw the implementation of these plans and the actual construction of the wetland.

Stony Brook Pipeline Project, Hampden County, MA (October 1996 to January 1997; April 1997 to January 1998; September 2000 to Present) Massachusetts Municipal Wholesale Electric Company (MMWEC)

As part of the Alternatives Analysis to be submitted to the Army Corps of Engineers, Ms. Davis performed a Wetland Functions and Values Assessment of three potential corridors for a 24-inch proposed natural gas pipeline. The Assessment criteria were based on the Army Corps of Engineers Highway Methodology and included the use of MassGIS data layers, NWI maps, Soil


Survey maps, USGS topographic maps, and state records. Key issues of the Alternatives Analysis were minimizing forest fragmentation and wetland impact.

Ms. Davis also prepared portions of the ENF and the Draft Environmental Impact Report (DEIR) for submittal to the MEPA Unit. She prepared and reviewed sections relating to fisheries, wildlife, and threatened and endangered species. She also participated in threatened and endangered reptile, amphibian, and insect surveys and wildlife habitat assessments along the proposed pipeline route to satisfy MEPA requirements.

Conducted wetland delineations for 5.6 miles of pipeline to satisfy MEPA and ACOE requirements. Provided response to comments on the DEIR and prepared the Final EIR.

Confidential Client (March 2000 to May 2000), Siting Study

Assessed numerous sites to determine preferred locations of potential gas-fired power plants. The sites were assessed for impacts to wetlands, residential areas, visual resources, recreational areas, geological conditions, and other exclusionary factors.

Confidential Client (September 1999 to March 2000), Siting Study

Assessed over 60 potential sites to determine preferred locations of potential gas-fired power plants. The sites were assessed for impacts to wetlands, residential areas, visual resources, recreational areas, geological conditions, and other exclusionary factors.

Private Fuel Storage Facility, Tooele County, UT (September 1996 to Present) Private Fuel Storage L.L.C.

Evaluated ecological resources of a proposed site for an interim spent fuel storage facility. Developed an Environmental Report and associated documents for submittal to the NRC. Assessed impacts to vegetation, wildlife, threatened and endangered species, and sensitive areas following NUREG 1567. Researched existing conditions through consultation with federal and state agencies and local experts, summarized existing studies and literature, and participated in site visits. Conducted an on-site environmental assessment of fuel transportation options on wildlife, vegetation, endangered species, and raptors in the project area. Conducted wildlife and endangered species surveys for the transportation corridor and site. Responded to and resolved State and NRC comments and Requests for Additional Information.

Maine Yankee Nuclear Facility (May to July 1999)

Conducted wetland delineations using the Army Corps methodology along the coastline of the facility. Prepared terrestrial resource sections of the Maine Site Location of Development and Maine Natural Resource Protection Act permits.



Eastern Shores Natural Gas, Corridor Projects, Delaware (March 1998-September 1998)

Conducted wetland delineations and wildlife habitat assessments for two corridors in Delaware. Prepared Resource Report 3, Fish and Wildlife of the FERC Application for a Certificate of Public Convenience and Necessity for these corridors. Consulted with state, local, and federal agencies regarding impacts to wildlife, fisheries, threatened and endangered species, and wetlands.

Eastern Shores Natural Gas, Corridor Projects, Delaware and Pennsylvania (May 1998 to December 1998)

Prepared Resource Report 3, Fish and Wildlife of the FERC Application for a Certificate of Public Convenience and Necessity for two corridors in Delaware and Pennsylvania. Consulted with state, local, and federal agencies regarding impacts to wildlife, fisheries, threatened and endangered species, and wetlands.

Braintree/Weymouth Tunnel and Intermediate Pump Station (June 1997 to January 1998) Massachusetts Water Resources Authority

Ms. Davis is responsible for preparing applications and securing federal and state environmental permits for construction of a proposed sewage pumping facility in Quincy, Massachusetts. The permits include Wetlands Conservation Board Notice of Intents (NOI) and an Army Corps of Engineers' Section 404 Dredge and Fill Permit.

Longfellow Bridge Remedial Repair Project, Boston/Cambridge, MA (October 1996 to November 1997)

Metropolitan District Commission

Ms. Davis is responsible for all environmental permitting issues addressed on state and local levels. Ms. Davis has prepared NOIs for submittal to the Boston and Cambridge Conservation Commissions and made a public presentation on the proposed project at public meetings. The NOIs included analysis based on the Riverfront Protection Act and the DEP Stormwater Management Guidelines. Other state and federal agencies have also been consulted throughout this project.

Interim Spent Fuel Storage Installation, Goodhue County, MN (March 1996 to June 1996) Northern States Power

Participated in the evaluation of ecological resources for development of Environmental Report and associated documents for permitting an ISFSI with the NRC. Assessed impacts to vegetation, wildlife, threatened and endangered species, wetlands and sensitive areas. Calculated total wetland and rare community acreages within 5 miles of the site, which included areas of Minnesota and Wisconsin, along the Mississippi River. Assessed locations of rare species within



a 5 mile radius of site based on the Minnesota and Wisconsin Natural Heritage Databases. Consulted with both the Minnesota and Wisconsin Department of Natural Resources as part of the preparation of this report.

Licensing and Compliance Support Federal Energy Regulatory Commission (FERC) - Office of Hydro Licensing (July 1995 to Present)

Prepared Environmental Assessments (EA's) and Environmental Impact Statements (EIS's) on behalf of the FERC and in conformance with FERC's NEPA requirements for relicensing of hydroelectric plants in several states. Responsible for all aspects of terrestrial sections including construction and operational impact assessment and mitigation for the following resource areas: vegetation, wetlands, wildlife, and threatened and endangered species. Responsible for identifying key resource issues at each project, determining appropriate mitigation, and responding to agency and public comments on draft EA's and EIS's. Task assignments include:

Relicensing of Existing Licensed Projects:

Flagstaff Project EA, ME

Prepared the terrestrial resources section of the EA for this storage reservoir that is a part of the Kennebec River Basin system. Addressed agency comments on potential impacts and developed recommendations to minimize adverse impacts and enhance existing resources. Recommended enhancements include the development of a Loon Monitoring Plan, a Bald Eagle Management Plan, and instituting minimum drawdowns in spring and summer months for the enhancement and protection of wetland habitat and waterfowl nesting.

Kennebec River Basin EIS, ME

Revised the terrestrial resources section of this multi-project EIS following a new analysis of the removal of Edwards Dam and assisted in preparation of draft license orders. Key issues were the effects of dam removal on wildlife habitat, wetlands, and threatened and endangered species.

Haas-Kings Hydroelectric Project Biological Assessments, CA

Prepared Additional Information Requests to the license applicant regarding threatened and endangered species information to be used in the preparation of Biological Assessments under section 7 of the Endangered Species Act. Species of interest include the bald eagle, peregrine falcon, California red-legged frog, and valley elderberry longhorn beetle.

Mokelumne Hydroelectric Project EA and Biological Assessments, CA

Addressed comments of conservation groups, the utility, and state and federal agencies in preparing the impact analysis of the hydroelectric project on terrestrial resources. Identified



suitable enhancements for terrestrial resources and incorporated comments and information on terrestrial and threatened/endangered species resources into the comprehensive analysis portion of the EA where appropriate. Ms. Davis also prepared Additional Information Requests regarding threatened and endangered species information to be used in the preparation of Biological Assessments under section 7 of the Endangered Species Act. Ms. Davis prepared draft Biological Assessments for the bald eagle, peregrine falcon, California red-legged frog, valley elderberry longhorn beetle, and delta smelt.

Santa Ana Hydroelectric Projects EA, CA

Responsible for preparing terrestrial section of the EA for multiple projects in the Lytle Creek, Mill Creek, and Santa Ana River Basins. These projects are partially in the San Bernardino National Forest. Issues include effects of minimum flows on riparian habitat, wildlife, wetlands, and rare species. Prepared Additional Information Requests for threatened and endangered species surveys. Attended site visit and participated in public scoping meeting.

Waterloo-Seneca Falls Hydroelectric Project EA, NY

Prepared terrestrial and wetland portions of the impact assessment and provided recommendations including a minimum flow for the bypassed reach and a wetland monitoring plan to maintain a wetland that could be at risk during construction for dam repairs.

Beaver River Hydroelectric Project EA, NY

Prepared terrestrial resource impact assessment including effects of large potential impoundment fluctuations that could affect nesting waterfowl, denning furbearers, hibernating reptiles and amphibians, plant species composition, and wetlands.

Oswego River Hydroelectric Project EA, NY

Prepared terrestrial resource impact assessment and provided recommendations including installation of inflatable dam crests to limit impoundment fluctuations from flashboard breakage.

Compliance Actions on Existing Licensed or Exempt Projects:

Old Mill Hydroelectric Project EA for Surrender of Exemption, VA

Assessed the impacts on terrestrial resources of the removal of a small hydroelectric project which was damaged in a flood.

Consumers Power Au Sable, Muskegon, and Manistee Hydroelectric Projects Assessment of Land Management Plans (LMPs) and Biological Assessment of the Karner Blue Butterfly, MI



Assessed three river-based LMPs for technical adequacy including plans for: Bald Eagle Management, Buffer Zone Management, Wildlife and Forestry Management, Karner Blue Butterfly Management, and Indiana Bat Management. Also prepared a Biological Assessment for Karner Blue Butterfly pursuant to a formal section 7 consultation under the Endangered Species Act. The purpose of the Biological Assessment is to determine the effects of the proposed land management actions on this federally endangered species.

Pensacola Hydroelectric Project Compliance EA, OK

Prepared the terrestrial and threatened and endangered species sections for this compliance EA that assessed the impacts of a proposed impoundment level rule curve change. Key issues involved the effect of seasonal changes in impoundment water levels on a Japanese millet seeding program ordered under the existing license as mitigation for project impacts on waterfowl food and cover.

Summersville Hydroelectric Project, WV

Prepared the terrestrial and threatened and endangered species sections for this compliance EA that assessed the impacts of a new 9.6 mile electric transmission line.

Portland Natural Gas Transmission System, VT, NH, ME, MA (August 1995 to January 1997) Consortium of companies

Prepared portions of the Environmental Report for an application for a FERC license for a new 240 mile natural gas pipeline stretching from the Canadian border in Vermont to Haverhill, Massachusetts. Produced a resource report on vegetation and wildlife, which included research and agency correspondence on fisheries, wildlife habitat, vegetative cover, threatened and endangered species, and wetlands resources for the states of Vermont, New Hampshire, Maine, and Massachusetts. Assisted in the coordinating of the final production of the approximately 1000 page document, including editing, QA/QC, layout, and printing.

Participated in wetland delineations in Vermont, performing function and value assessments using Vermont ANR methodology and recording locations and boundaries collecting data points using a Geographic Positioning System (GPS). Prepared functional analyses covering over 60 separate wetlands for the VT Water Quality Certificate application. Assisted in the preparation of the Threatened and Endangered Species Report. Also prepared text descriptions of wetlands and coordinated compilation of field data collected by three biological field survey crews.

LNG Facility, Wells, ME (May 1996) Granite State Gas Transmission Co.



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Conducted wetland function and value assessments using the Army Corps of Engineers Highway Methodology along a proposed access road and for a 80 acre site. Prepared the written functional assessments for use in the preparation of a wetland replication plan.

Tennessee Gas Pipeline Company, Beverly-Salem Colonial Delivery, Lynnfield, MA (August 1995 to October 1995) Colonial Gas Company, Colonial Lateral Project

Prepared Environmental Notification Forms (ENF's) in accordance with Massachusetts Environmental Policy Act (MEPA) protocols for two natural gas pipeline projects.

Exhibit D

CONDENSED TRANSCRIPT

UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)) Docket No. 72-22
PRIVATE FUEL STORAGE, L.L.C.	/) ASLPB No. 97-732-02-ISFSI)
- V -)
) Deposition of:) JAMES C. CATLIN
(Private Fuel Storage Facility))
1)
Defendant.) (Utah Contention DD)

April 24, 2001 - 9:30 a.m.

Location: Parsons, Behle & Latimer 201 South Main, #1800 Salt Lake City, Utah 84111

• Reporter: Diana Kent, RPR Notary Public in and for the State of Utah



50 South Main, Suite 920 Salt Lake City, Utah 84144

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801.532.3441

TOLL FREE 877.532.3441

FAX 801.532.3414

In the matter of: Private Fuel Storage, L.L.C. James C. Catlin * April 24, 2001

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	In the matter of: Priva		-	
	James C. Catlin	*	April 24, 2001	
	SHEET 6 PAGE 41 41		PAGE 43 43	
1	Management to find out their fire history in that area.	1	they decided to build the railroad without such a thing,	
2	So I wouldn't want to answer that question until I.	2	what impact would you see then?	
3	consulted those sources.	3	A. It would be less. You mean what impact from	
4	Q. But do you think that there are what	4	just trains themselves?	-
5	measures would you see that they should take to reduce	5	Q. Just the trains and the rails and the	
6	the fire hazard to an adequate level; do you know?	6	trains?	
7	A. Well, I think inspecting the trains,	17	A. And the potential construction of it?	1
8	stopping the train and inspecting it before it went on	8	Q. Right. Right.	
9	the spur to see if there's anything, and you do this	9	A. Well, it might affect those wilderness	
10	with equipment to see if there's anything that might	10	activities that relate to wildlife. And those are	
11	potentially issue a spark or cause a fire.	11	hunting and observation, scientific study. If it	1
12	Q. What about the larger railroads running	12	somehow changed the plant community through one	
13	through the area, like the Union Pacific? If they came	13	process I mentioned earlier that fire is one of the	
14	to you and said, "What should we do to reduce the hazard	14	bigger ones that can cause changes. Things that lead to	
15	of fire to an adequate level," what would you suggest to	15	large scale changes in the plant community will also	
16	them?	16	lead to changes in the wildlife community. And that	
17	A. I would suggest the same protocol; that they	17	indirectly affects people. We are either dependent or	
18	inspect the train before it reaches hazardous areas,	18	have need for recreation activities related to that or	
19	after it's been running to see if anything is heating,	19	in the candidate wilderness area.	
20	any of the potential working parts of a trailer are	20	Q. Is there anything else that you would see	
21	overheating. That's what I'd advise them. I'm not an	21	that the rail line would do in addition to the impact on	1
22	expert in this area but I do know that there have been	22	the plant communities?	1
23	rail caused fires in the west desert right near this	23	A. It would change the scenic value and	
24	area. So I don't know when or how much. That's	24	certainly would bring an urban presence, a rail line	1
25	research that I would have to look into.	25	presence to that whole area. For this time not only are	
,		1		1
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In the matter of: Private Fuel Storage, L.L.C. James C. Catlin * April 24, 2001

	James C. Catlin	*	April 24, 2001
	PAGE 45		PAGE 47
	45		47
1	development is nearby because the people that promote	1	railroad outside the boundary of the area per se and
2	that development want to make certain there's the least	2	didn't say anything in opposition to any wilderness
3	possible restrictions on the lands surrounding their	3	proposal anywhere in the region. Would you still say
4	development for one reason or another. So there's a	4	that the rail line would have a negative effect on the
5	political history of opposition to wilderness areas, not	5	suitability of the North Cedar Mountains for designation
6	because there is necessarily a direct cause and effect	6	as wilderness?
7	relationship. But it's seen that less restriction, less	17	A. Silence might be interpreted by the Tooele
8	protection for areas is something that is best to	8	County government as opposition to wilderness. It is
9	promote the business in the area.	9	hard to say. We found in some of the areas where, for
10	Q. Aside from the issue of potential future	10	example, we had gone to great extent to have buffers
11	development, in other words development other than just	11	around potential pot ash mines, around other mines in
12	the railroad itself, if the railroad were built outside	12	the area, still strong opposition to wilderness is
13	the boundary of the North Cedar Mountains, would you see	13	echoed by that company through the county commission.
14	that having a negative impact on the suitability of the	14	And the county commission becomes the advocate of that.
15	North Cedar Mountains itself as a wilderness area?	15	So silence in this case may not be enough to overcome
16	A. It could. And the most highly likely	16	political opposition that exists for wilderness in the
17	scenario is it would help encourage and establish	17	area. So it's a very I can't actually say how this
18	ongoing increased motorized recreation in the area. If	18	is going to play out. This is a complete unknown and
19	that happens, it is very hard politically to undo that	19	this is total conjecture.
20	established use.	20	But the political ramifications of an
21	Q. And would that be people coming into an area	21	industrial site near a wilderness area is not good for
22	through a road? Assuming that there's no road built,	22	the increased likelihood of its designation, regardless
23	assuming it is just a railroad, what impact would you	23	of what that is.
24	see that having on the suitability of the area itself?	24	Q. Well, okay. All right. But aside from the
25	A. Just the railroad?	25	political aspect of it, and aside from companies or
	PAGE 46	+	PAGE 48
	46		48
1	Q. Just the railroad. Built hypothetically	1	county governments trying to influence the BLM process,
1 -		-	
2	outside the boundary of the area per se, of the North	2	just from the perspective of BLM looking at the area for
2	Cedar Mountains per se.	1	just from the perspective of BLM looking at the area for the characteristics it typically evaluates when
	Cedar Mountains per se. A. Well, I would think that I would want to ask	2 3 4	just from the perspective of BLM looking at the area for the characteristics it typically evaluates when determining whether or not an area should be designated
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Cedar Mountains per se. A. Well, I would think that I would want to ask some questions before I answered this about what it takes to operate the railroad in terms of communication and in terms of long-term support of the area, and how the railroad operation and the people who are running it feel that a nearby wilderness would impact their operation. They may, and this is what I don't know, they may say that we prefer it not being wilderness because it may impede our operation of this line. That's a question I can't answer and they can. So I would want to know more about the operation of the railroad and whether they would perceive it politically best if that is not designated wilderness. If the promoter, if the advocate of this proposal went to an elected official in Utah and said, "We oppose wilderness in this area," that's a significant effect on the potential candidacy of that area. So I would want to know where they stand on that. If they advocate wilderness and say, "We will build a railroad and advocate wilderness," that would be nice. But we don't	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	just from the perspective of BLM looking at the area for the characteristics it typically evaluates when determining whether or not an area should be designated as wilderness or potential wilderness, do you believe that building a rail line outside of the boundaries of the North Cedar Mountains would have a negative impact on its suitability? A. The agency, too, might be affected by it because their decisions are strongly politically based. Even though they are supposed to be based on Q. Setting aside the political question for a moment. Just looking at it from a physical question of what is in the area, looking at or under the requirements that they use to determine whether or not an area should be set aside for wilderness, looking strictly at those requirements, looking at the area itself, do you think a rail line or any industrial development, for that matter, outside the boundaries of the area would have a negative impact on the suitability of the area for designation as wilderness? A. For the reasons I mentioned, it is highly likely. And the decision to designate wilderness is

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	James C. Catlin	*	April 24, 2001
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1	always, a political decision. And it is based on the	1	Q. All right. Let me introduce another exhibit
2	relationship of other lands nearby and what people want	2	here.
3	and see in those areas. It is very much a political	3	(EXHIBIT-3 WAS MARKED.)
4	decision. So if the rail line does change the political	4	
5	character of that argument or discussion, yes, it will	5	Wilderness Inventory, Final Decision on Wilderness Study
6	affect it.	6	Areas, Utah, November, 1980." Have you ever seen this?
17	Q. Now, you talk about what people want to do	17	A. Yes.
8	with an area. Are you talking about people potentially	8	Q. Are you familiar with what it says?
9	wanting to develop an area that is being proposed as	9	A. Yes. The copy is almost illegible.
10	wilderness or are you talking about people wanting to	10	Q. I apologize for the copy. It is not very
11	develop the area adjacent to that, sort of outside the	11	good. But you understand that in 1980, BLM decided that
12	proposed wilderness area but still close to it?	12	the North Cedar Mountains were not worthy of further
13	A. It comes in a broad spectrum. It is both	13	wilderness inventory and review?
14	inside and outside. And in some cases there are some	14	A. Correct.
15	communities who want to retain the wild, natural	15	
16	heritage they have. And this is the case with the folks		Q. Given that decision, and the development
17	in Deep Creek Mountains. And they are really very	16 17	that currently exists around the area, do you believe
18		1	that it is likely that this region could be designated
19	protective of the wildlands out there and protecting	18	as wilderness in the future?
1	them. Other folks are looking at I-80 as an industrial	19	A. Yes. The area to the south is on the short
20	corridor for a whole number of things and that is yet an	20	list of areas that is going to be designated. It is
21	unknown as to what other things are planned for that	21	supported by the county. It is supported by the
22	region in addition to toxic waste incinerators and so	22	Congressional
23	OR.	23	Q. When you are talking about the area to the
24	What does the military have planned north of	24	south, you mean the Cedar Mountains?
25	the area in all of these are factors that will lead to	25	A. Adjacent.
	PAGE 50 50		PAGE 52
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1 1	increased notential development maybe even a small city	1	52
	increased potential development, maybe even a small city	1	Q. Is the Cedar Mountains a current wilderness
2	rising out of the area near the freeway where the	2	Q. Is the Cedar Mountains a current wilderness study area?
2 3	rising out of the area near the freeway where the industrial activity is going on? All of those things	2	Q. Is the Cedar Mountains a current wilderness study area? A. Yes.
2 3 4	rising out of the area near the freeway where the industrial activity is going on? All of those things potentially will impact the future of the area.	2 3 4	 Q. Is the Cedar Mountains a current wilderness study area? A. Yes. Q. We are talking about the North Cedar
2 3 4 5	rising out of the area near the freeway where the industrial activity is going on? All of those things potentially will impact the future of the area. Q. Well, you mention Interstate 80 and the	2 3 4 5	 Q. Is the Cedar Mountains a current wilderness study area? A. Yes. Q. We are talking about the North Cedar Mountains here, right?
2 3 4	rising out of the area near the freeway where the industrial activity is going on? All of those things potentially will impact the future of the area. Q. Well, you mention Interstate 80 and the hazardous waste incinerator. You are aware that there's	2 3 4	 Q. Is the Cedar Mountains a current wilderness study area? A. Yes. Q. We are talking about the North Cedar Mountains here, right? A. Correct.
2 3 4 5 6 7	rising out of the area near the freeway where the industrial activity is going on? All of those things potentially will impact the future of the area. Q. Well, you mention Interstate 80 and the hazardous waste incinerator. You are aware that there's a hazardous waste incinerator to the northwest of the	2 3 4 5 6 7	 Q. Is the Cedar Mountains a current wilderness study area? A. Yes. Q. We are talking about the North Cedar Mountains here, right? A. Correct. Q. Do you believe, given the fact that BLM
2 3 4 5 6 7 8	rising out of the area near the freeway where the industrial activity is going on? All of those things potentially will impact the future of the area. Q. Well, you mention Interstate 80 and the hazardous waste incinerator. You are aware that there's a hazardous waste incinerator to the northwest of the area.	2 3 4 5 6 7 8	 Q. Is the Cedar Mountains a current wilderness study area? A. Yes. Q. We are talking about the North Cedar Mountains here, right? A. Correct. Q. Do you believe, given the fact that BLM considered and rejected the area twenty years ago, that
2 3 4 5 6 7 8 9	<pre>rising out of the area near the freeway where the industrial activity is going on? All of those things potentially will impact the future of the area. Q. Well, you mention Interstate 80 and the hazardous waste incinerator. You are aware that there's a hazardous waste incinerator to the northwest of the area. A. Right.</pre>	2 3 4 5 6 7 8 9	 Q. Is the Cedar Mountains a current wilderness study area? A. Yes. Q. We are talking about the North Cedar Mountains here, right? A. Correct. Q. Do you believe, given the fact that BLM considered and rejected the area twenty years ago, that it is likely that they would reverse that decision,
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In the matter of: Private Fuel Storage, L.L.C. James C. Catlin * April 24, 2001

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	James C. Catlin	*	April 24, 2001
	PAGE 53		PAGE 55
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1	that are going in next to it. But BLM found that area		impacts they talk about constitute a small fraction of
2	qualified for wilderness and would recommend it as a	2	the area and they are on the periphery. So if you drew
3	wilderness study area.	3	boundaries that exclude, for example, and this is the
4	Why is that different? Well, what is	4	big thing that our wilderness work did is we excluded
5	different is that - and this is also a matter of	5	this vehicle route up through one of the major canyons
6	record - there were a number of administrative appeals	6	here. And in doing so, you still have a unit that is
7	filed over candidate areas in Utah. In order to submit	7	still over 5000 acres but it removes the major impact
8	an appeal - and I was one of the people responsible for	8	route that they talk about.
9	writing these administrative appeals - you had to do	9	The hill climbing and other activities they
10	extensive field work on candidate areas and then prepare	10	are talking about occupy a tiny percent of the whole
11	a rather exhaustive argument that really brought in new	11	unit. I haven't done this analysis but we certainly
12	information and overcame the general tendency of the	12	could. And most of the area, more than 90 percent, is
13	agency to prevail or to be the source of information.	13	completely natural. And it is a rugged area of a number
14	So we had an uphill fight in looking at these areas.	14	of incised canyons and ridge tops and buttes and
15	Now, we had very limited resources.	15	overlooks of different some of them are pinion
16	Compared with what we had today, there were probably	16	juniper forested, juniper forested, some are open tree/
17	only three or four people in the state who were paid to	17	shrub slopes, and there are barren areas. Some have
18	work on environmental issues, and only one or two of	18	rugged and scenic outcrops and geologic formations. But
19	them to work on the 22 million acres of BLM lands that	19	if you were out there and I put you in the middle of
20	are out there. Today we are much better situated in	20	this area, you could hike for most of a day and not see
21	terms of technology, in terms of better maps, in terms	21	a single impact.
22	of more support for doing inventory work. So with	22	Q. All right. What if you were not in the
23	limited resources we appealed a few select areas. This	23	middle of the area? What if you were more toward the
24	is not one we appealed. But in the ones where we did	24	outer region, outer portion of the area?
25	appeal, we raised those arguments and many times we	25	A. The boundary of the unit, of course, is a
	PAGE 54		PAGE 56 56
1.	54	1,	vehicle route that has been maintained and sees regular
	prevailed. I argued that if we filed an appeal on this		use. And that's an impact. Occasionally you will see
2	one and had the resources to do it, this would be a	2	where people have a car camped beside it or where
3	wilderness study area today.	4	off-road vehicles have done some small hill climbing,
4	Q. Are there specific aspects of the BLM findings that you take issue with?	5	particularly on the north side of it. Outside the unit,
5		6	north of there, there's a communications site closer to
6	A. Well, let's read through it again and see what we have here, if we can read it. "The cumulative	7	the freeway in that area. You will see additional
	effect of man" something "and some large impacts are	8	camping and activities in that area, too, some of which
8	considerably evident within the relatively small unit."	9	overlap the candidate area. But the impacts you will
10	MS. WALKER: What does the first	10	
111		1	see, none of which are significant in themselves in the
11	sentence say?	11	area
12	sentence say? THE WITNESS: "The unit contains 10,080	11 12	area Q. You are talking strictly within the
12 13	sentence say? THE WITNESS: "The unit contains 10,080 acres of" I can't see it.	11 12 13	area Q. You are talking strictly within the interior?
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	James C. Catlin	* /	April 24, 2001
	SHEET 8 PAGE 57		PAGE 59
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1	about, "Because of the openness and exposure to other	1	network of over 11 miles of 'ways' were recorded within
2	imprints a feeling of sublime naturalness is lacking."	2	the unit's boundaries. Lee's Canyon 'way' follows a
3	You think that is an incorrect statement regarding this	3	drainage and cuts a six mile path through the southeast
4	area?	4	end of the North Cedars, impacting in its course the
-	A. Yes. Because if you look at the cumulative	5	5,000 acre parcel making up that end of the unit. Other
5	impact of human imprints in an area, you would expect	6	impacts along this access route include quarries,
6	that if you were standing on one imprint and there were,	1	livestock trails, and motorcycle paths." Is that an
17	that if you were standing on one imprint and there were,	8	accurate statement?
8	as BLM claims, a lot of other imprints, then a majority	9	A. That does not reflect the wilderness
9	of the area would have a feeling of being unnatural.	10	proposal that we have put together. That reflects
10	You would see the imprints.	1	
11	Q. What if you were standing on the north side	11	and this is characteristic of many of the inventory
12	of the area and you were looking out to the north and	12	problems. BLM intentionally included impacts inside
13	you saw Interstate 80 or the Union Pacific railroad?	13	their study area in order to disqualify a larger area.
14	A. Right. Outside impacts do not or are not	14	If you drew a boundary around the quarries, if you drew
15	considered in naturalness. And there's a long	15	a boundary around those impacts of Lee's Canyon, which
16	legislative history about that. A good example that our	16	we did, you would then remove all of the significant
17	Congressional delegation supports of that is the	17	impacts and would have still a sizable area that
18	wilderness areas right in the mountains. Almost all the	18	equalizes. So the important thing is that many of these
19	mountains on the Wasatch Front that face the city are	19	impacts are not in our proposal that we are looking at
20	designated wilderness areas. They have thousands of	20	and do not describe the wilderness character of the
21	airline flights that come right over them landing in the	21	lands that we are talking about.
22	airport. They have highways and a city right there. So	22	Q. There's a map here on the last page of
23	all that goes on in the city can be seen from Mt.	23	Exhibit 3 that is the North Cedar Mountain area as
24	Olympus and Twin Peaks and Lone Peak. Outside sites and	24	evaluated by BLM. And hold on to that for a second and
25	sounds do not disqualify an area.	25	then I'd like to introduce another exhibit.
	PAGE 58	+	PAGE 60
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1	58 Q. So by that explanation, you would say that	1	60 (Discussion off the record.)
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	James C. Catlin	* /	April 24, 2001
p	PAGE 69		PAGE 71
	69		71
1	the whole book. We only have the section here that	1	top of that
2	talks about the area to the south.	2	Q. Well, when they are talking about, take for
3	Q. So you believe the reason the BLM didn't	3	example scenic vistas and wide open spaces, if you add a
4	look at the North Cedar Mountains, one reason was it	4	vista or an open space where you were looking onto an
5	wasn't on the Citizens Wilderness Proposal.	5	interstate highway, would that be considered an
6	A. Right.	6	opportunity for solitude?
7	Q. Is there any other reason that they	1	A. Because it faces to the east and west, yes.
8	A. Yes. They inventoried large blocks of land	8	You can find places where you can have that experience
9	where they had new acquisitions. And that was in the	9	and not see the freeway.
10	Book Cliffs and the Pilot Range in the west desert. In	10	Q. But if you were in a place where you could
11	this case, the Bureau of Land Management, to give them	11	see the freeway, would that be considered an opportunity
12	credit, had exchanged lands with the railroad company.	12	for solitude?
13	So they had blocked off large, natural areas. So they	13	A. Yes. Because you are away from the urban
14	were looking at those. These were new public lands that	14	controlled environment, the human controlled
15	had not been considered before. Those are the two	15	environment. So you can even have a feeling of solitude
16	criteria.	16	in that situation where there are outside sights and
17	Q. Do you know why the North Cedar Mountains	17	sounds. And that is clearly the case in the wilderness
18	was not included in the Citizens Wilderness Proposal?	18	areas next to Salt Lake which, many of them, you have
19	A. I don't know if it is or isn't. I'd like to	19	either noises from the canyons as vehicles are going up
20	check on that, so I can't answer that question right	20	and down them or overflights or sights and sounds of the
21	now.	21	city or the ski developments or helicopter skiing. A
22	Q. Let's turn back to the 1980 BLM assessment,	22	lot of activity. And yet people still find those areas
23	which is Exhibit 3, again. In addition to the impacts,	23	do qualify. In fact, our delegation agreed that they do
24	they are talking about outstanding opportunities and	24	qualify as wilderness.
25	supplemental values. And the first subcategory in	25	So part of the dilemma is that the criteria,
1	**		
	PAGE 70		PAGE 72
	PAGE 70 70		PAGE 72 72
1	PAGE 70 Outstanding opportunities is solitude.	1	PAGE 72 72 in order for an area to qualify for wilderness study, it
1 2	PAGE 70 Outstanding opportunities is solitude. A. Right.	12	PAGE 72 72 in order for an area to qualify for wilderness study, it has to meet the size, which it does. It has to possess
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PAGE 65 PAGE 65 PAGE 67 PAGE 65 65 1 Noutains area just to the cast? 65 2 A. Yes. I have been pretry much through the area. all of which is described as thr norte that the sail of that roots. 16 2 0. What shout just to the east of that, to the reacting outproped rout for the rail line? 16 3 1 have been less is that area, but nost impacting would be the structures the sastern flam. So if you think of the drahage as reaching to the proposed rout for the rail line? 17 9 A. I have been less is that area, but nost impacting would be the structures the sastern flam. So if you think of the drahage as reaching to the proposed rout for the rail line? 18 11 the very center. 0. All right. Have safiler, you taiked about the provential for environmental impacts in the box through of the sastern flam. So if you think is front ePS? railroad, elits knowledge do you react ing some of the things or restating some of the things I have sativities, restanable right we sastha sot		In the matter of: Priv		• ·
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24 introduction of foreign species? 24 storm water flow because it would cut off many of the)			•
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25 A. It would still have quite an effect not only 125 small meanders and usually through a few culverts?	2			•
	25	A. It would still have quite an effect not only	25	small meanders and usually through a few culverts?

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	In the matter of: Priv		
	James C. Catlin		
	SHEET 12 PAGE 89 89		PAGE 91 91
		1	The potential change in this area to the
1		2	wetlands is that to a certain degree it may prevent us
2	current location, yes. You think that would also be a	{ _	from bringing back the natural conditions that may have
3	potential if moved out	3	• •
4	A. Yes. I think it would be in another	4	been there pre-settlement times. It may cause
5	location as well, yes.	5	additional recharge and use disturbances to the area
6	Q. Is there anything else you see, any other	6	that prevents the reestablishment of these. Pre-
7	impacts you see?	7	settlement times, these valleys often had enormous
8	A. Frequently these rail lines come with	8	wetland areas. Almost all the water today is diverted
9	continued application of herbicides or chemicals that	9	before it reaches the bottom of these valleys.
10	may affect pollinators, may affect native plant.	10	Q. Is that true in Skull Valley?
11	communities in the area. Any time that you use these	11	A. Skull Valley, there's a great deal of
12	chemicals, particularly to eradicate what are called	12	diversion that occurs for the ranching community and
13	weeds, you often hit untargeted species, native plants.	13	agriculture there.
14	And in doing so, you create an opportunity for more	14	Q. Where does this diversion take place?
15	exotic plants to come in. So the use of chemicals to	15	A. Usually as the streams emit from the
16	control plants or insects in the area is also a	16	mountain sides on each side, and in the case of Skull
17	potential impact of the area.	17	Valley there's a number of wells which further depress
18	Q. Is that an impact that would apply both to	18	the water table, making or leading to the extinction of
19	Skull Valley and to the North Cedar Mountains?	19	surface water and to these areas.
20	A. It would apply along the rail route. The	20	Q. Does a diversion of water take place on the
21	chemical impacts will apply along the railroad.	21	west side of Skull Valley?
22	Q. I meant hypothetically if the line was	22	A. Mostly on the west side. The wells were
23	located where it is now, or if it was moved to the east	23	found throughout the valley. There's a long line of
24	outside the North Cedar Mountains area?	24	them on the east side and then they go further to the
25	A. I think it would be equally the same for	25	west in the southern part of the valley. And these
1	PAGE 90		PAGE 92
1	90	1	92
1	both, both inside where it is now proposed and other	1	wells, too, also impact these riparian areas. So what
2	locations.	2	I'm saying is even if you don't find one today, there
3	Q. What knowledge do you have of the	3	may be a prehistoric riparian area that has potential of
4	sensitivity of wetlands to environmental impacts from	4	being reestablished should we change management options
5	the railroad? You mentioned the possibility of a	5	for water in that area today. And a new rail line, a
6	wetland existing in Skull Valley.	6	new industrial use, a new use of water in the area may
1	A. Yes. One of the first things that happens	7	make that harder to reestablish the natural health of
8	when ranching comes to a valley if you can imagine	8	that area to what it was before.
9	the nature of the Great Basin area 12,000 years ago.	9	Q. Do you mean harder in a physical sense or
10	Interestingly, in the Great Basin we know more about the	10	harder in a political sense in that it would represent
11	history of plant communities and their evolution than we	11	the progress of development, so to speak?
12	know almost anywhere else in North America. And the	12	A. In this case, both. It would make it
		1	
13	reason for this is the pack rat, which also may occur in	13	politically more difficult and it would make it
	this area, another scientific resource that is a	13	physically more difficult because it is likely that it
13		ļ	• •
13 14	this area, another scientific resource that is a	14	physically more difficult because it is likely that it
13 14 15	this area, another scientific resource that is a critical thing for paleobotanists who are trying to	14 15	physically more difficult because it is likely that it would be or the project itself would change the recharge
13 14 15 16 17	this area, another scientific resource that is a critical thing for paleobotanists who are trying to reconstruct past ecosystems. These are layered dens and nests that have literally thousands of years of pollen,	14 15 16	physically more difficult because it is likely that it would be or the project itself would change the recharge characteristics and also lead to increased or continued
13 14 15 16 17 18	this area, another scientific resource that is a critical thing for paleobotanists who are trying to reconstruct past ecosystems. These are layered dens and nests that have literally thousands of years of pollen, encapsulated in pack rat dung, and it's like a layered	14 15 16 17	physically more difficult because it is likely that it would be or the project itself would change the recharge characteristics and also lead to increased or continued water drawn out in the wells and surface water in the
13 14 15 16 17 18 19	this area, another scientific resource that is a critical thing for paleobotanists who are trying to reconstruct past ecosystems. These are layered dens and nests that have literally thousands of years of pollen, encapsulated in pack rat dung, and it's like a layered paper, document. You undo a page at a time. And each	14 15 16 17 18	physically more difficult because it is likely that it would be or the project itself would change the recharge characteristics and also lead to increased or continued water drawn out in the wells and surface water in the area.
13 14 15 16 17 18 19 20	this area, another scientific resource that is a critical thing for paleobotanists who are trying to reconstruct past ecosystems. These are layered dens and nests that have literally thousands of years of pollen, encapsulated in pack rat dung, and it's like a layered paper, document. You undo a page at a time. And each page has in it captured pollen that can be identified	14 15 16 17 18 19	physically more difficult because it is likely that it would be or the project itself would change the recharge characteristics and also lead to increased or continued water drawn out in the wells and surface water in the area. Q. And you mentioned past riparian areas. What
13 14 15 16 17 18 19 20 21	this area, another scientific resource that is a critical thing for paleobotanists who are trying to reconstruct past ecosystems. These are layered dens and nests that have literally thousands of years of pollen, encapsulated in pack rat dung, and it's like a layered paper, document. You undo a page at a time. And each page has in it captured pollen that can be identified under a microscope of the plants of that area. It tells	14 15 16 17 18 19 20	physically more difficult because it is likely that it would be or the project itself would change the recharge characteristics and also lead to increased or continued water drawn out in the wells and surface water in the area. Q. And you mentioned past riparian areas. What about current wetlands; hypothetically, if one were to pick a route for a railroad that went across a wetland,
13 14 15 16 17 18 19 20 21 22	this area, another scientific resource that is a critical thing for paleobotanists who are trying to reconstruct past ecosystems. These are layered dens and nests that have literally thousands of years of pollen, encapsulated in pack rat dung, and it's like a layered paper, document. You undo a page at a time. And each page has in it captured pollen that can be identified under a microscope of the plants of that area. It tells you not only what is there but also tells you the	14 15 16 17 18 19 20 21 22	physically more difficult because it is likely that it would be or the project itself would change the recharge characteristics and also lead to increased or continued water drawn out in the wells and surface water in the area. Q. And you mentioned past riparian areas. What about current wetlands; hypothetically, if one were to pick a route for a railroad that went across a wetland, what would the impact be of an existing wetland?
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13 14 15 16 17 18 19 20 21 22	this area, another scientific resource that is a critical thing for paleobotanists who are trying to reconstruct past ecosystems. These are layered dens and nests that have literally thousands of years of pollen, encapsulated in pack rat dung, and it's like a layered paper, document. You undo a page at a time. And each page has in it captured pollen that can be identified under a microscope of the plants of that area. It tells you not only what is there but also tells you the	14 15 16 17 18 19 20 21 22	physically more difficult because it is likely that it would be or the project itself would change the recharge characteristics and also lead to increased or continued water drawn out in the wells and surface water in the area. Q. And you mentioned past riparian areas. What about current wetlands; hypothetically, if one were to pick a route for a railroad that went across a wetland, what would the impact be of an existing wetland?

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1patch associated with it can be very, very small - it1vehicles, the special loading2might completely cover it physically. And you would2Q.I meant in terms of3completely lose that. It may be possible, since they3the train, the length of cars4are so small, to route around them or go at the edge of4A.No.5them. I haven't done this analysis, either. I can't5Q.Are you familiar of	trucks. of the number of cars of of the trains. en that. with the process by which entary civil engineering ys. I'm not intimately
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•	entary civil engineering ys. I'm not intimately
	s. I'm not intimately
	s. I'm not intimately
9 Q. In the course of the work that you have 9 familiar, no. But I have some	, nonovol compo of it
	dgeable of the cost of
11 environmental impacts caused by railroads in the sense 11 building a railroad and the fa	ctors that affect the cost
12 that one might look at impacts if one were preparing an 12 of building a railroad?	
	eral sense I know certain
14 assessment? 14 kinds of land forms and certai	
15 A. Yes. I looked at the railroad line that was 15 cost more. But only in a very	
	your knowledge of the
17 the '70s. I looked at rail lines for the IPP power 17 requirements for routing a rai	lroad in terms of what
18 plant that was proposed in the southern San Rafael 18 makes a potential route suitab	le or unsuitable for
19 swell, salt wash site. And I have looked at the past 19 building a railroad there?	
	ity or my knowledge of
21 that is in our sand ridge or near our sand ridge unit 21 this is related to more of wha	
22 serves as the border of our sand ridge unit south of 22 either motor vehicles or railr	oad. So it's more
23 Delta, we investigated how rail lines influence the 23 structural in nature.	
24 naturalness of the area. And it turned out to be a 24 Q. And how would you	describe that? What makes
25 management asset. I shouldn't say this, but the rail 25 an area more suitable or less	suitable for building a
PAGE 94 PAGE 96	
	96
1 line lies between the highway and the candidate 1 roadbed?	
	terial and the soil type
3 opportunities. And as a result, it offers a barrier 3 underneath it and the relative	
4 that keeps out many vehicles from going into the area. 4 affects the stability of that	
5 This rail line is not in that same situation. But in 5 in ensuring that you have a sta	ible roadbed for the rail
6 that particular case, the rail line did not diminish the 6 line or highway, either.	
	th the effect of the
8 Q. How is the PFS rail line different than the 8 topology of the land on the fea	sibility of routing
9 rail line you just discussed? 9 railroads?	• • • •
	much more sensitive than
11 barriers on each side are different. Potential roadway 11 roads to that. There's only a	
12 beside the railroad, in this case there was a highway 12 allowed for a rail line, partic	• •
13 that was outside the area. The rail line has not been 13 But I would say that that's not	a factor affecting this
14 maintained with chemicals and has not seen a lot of use. 14 decision.	
15 Q. This is the rail line you discussed that 15 Q. And why would you s	
	rail line is proposed and
17 A. Yes. So I'd say its low use and low 17 east of there is quite flat.	
	at you had reviewed the
19 less of an impact. 19 draft environmental impact stat	ement for the PFS
20 Q. Are you familiar with the PFS rail line 20 project.	
21 proposal in terms of how often it would be used? 21 A. Yes.	
• •	he section that discusses
23 Q. Do you know what the size of the trains 23 the environmental impacts of the	
	ld it be useful to open
25 A. I saw a picture of the size of the highway 25 that document and go through it	-
CitiCourt. LLC	·····

	James C. Catlin		April 24, 2001
<u> </u>	SHEET 14 PAGE 105		PAGE 107
	SHEET 14 PAGE 105	1	PAGE 107 107
1		1	Cedar Mountains area, how would, in your view, the
2		2	environmental impacts of such alternative locations
1		3	differ from the current location?
3	• • • • • • • • • • • • • • •		
4		4	A. One is it would not directly impact the
5	study area because of some potential development in the	5	candidate wilderness area. It would not cross it. So
6		6	there would be definitely this is a significant
7	Q. And you say "this area" and you are	7	impact that would disqualify that part of the area from
8	referring to the north side?	8	wilderness. So since it would be outside the unit, that
9	A. The North Cedar Mountains.	9	physical impact would not be inside, and that's
10	Q. Okay. In your view, or in SUWA's view,	10	definitely a difference.
11		11	Q. Is there anything else that you see would be
12		12	different?
13	• • •	13	A. A lot depends on parallel roads to the
14		14	railroad and potential fire management on these barriers
15	• • • • •	15	on each side, and vehicle access to those.
1	•	16	
16		10	Q. Assuming they would be the same, wherever
17			was chosen or the design of the railroad itself would
18	•	18	not change. All we would do would be to move it from
19	-	19	its current planned location to some location outside of
20	· · · · ·	20	the North Cedar Mountains.
21	• • •	21	A. Well, maybe more or less, let me lay out a
22	~ 11 1 -	22	potential scenario. Most rail lines where there's high
23		23	use have a vehicle route beside it. It's been usually
24	desirable for PFS to choose a new location for the rail	24	on one side or the other. Not both. It is rarely on
25	line that caused environmental impacts in addition to or	25	both. If it is on the east side of the railroad tracks,
	PAGE 106	1.	PAGE 108
	106		108
1	above and beyond those it would cause in its current	1	and the railroad tracks are high enough with a cross
2	location?	2	section to prevent most vehicles from crossing, and
3	A. I don't know if I can answer the question	3	there's not opportunities to cross, then it will or
4	because I don't know of any other route that would cause	4	there would be fewer impacts to the candidate area
5	more environmental impacts than the one now chosen.	5	because of off-road vehicle use.
6	Q. Hypothetically if such a route did exist, do	6	If, on the other hand, the vehicle route
7	you believe that that would be a desirable route?	1	that supports the rail line is on the west side of it,
8	A. I don't believe it exists, so it's hard for	8	it will lead to more impacts to the area even though the
9	me to conjecture on a hypothetical question which I	9	rail line and the road is outside the candidate
10	don't think exists.	10	wilderness area. So it depends on a cross section of
11	Q. So you are saying you don't have an opinion	11	the rail line and how it affects off-road vehicle and
12	as to the total level of environmental impacts caused by	12	public use of the area. It depends on location of the
13	the PFS railroad, whether it is in its current location	13	support road that is next to it. It depends on roderion of the
14	or whether it moves to a different location?	14	fire barrier and how that is managed and the vehicle
		ſ	access that that also allows.
15	A. Well, I think a different location would	15	
16	have lower impacts than this one.	16	Q. If there was no road built along with the
17	Q. And do you view that as a good thing because	17	rail line, if it was just the rail line itself, how
18	the impacts are lower or would be lower?	18	would you see that the impact would differ between the
19	A. Yes.	19	current location and the location that was hypothetic-
20	Q. And talking about environmental impacts now	20	ally moved to the east some distance to avoid the North
21	in a general sense, setting aside for a moment the	21	Cedar Mountains area?
22	question of potential wilderness designation of the	22	A. So in that scenario there's a rail line, no
23	North Cedar Mountains, if you consider potential	23	fire lanes, no roads, adjacent road.
24	alternative locations for the PFS railroad, say it would	24	Q. First just take the case with the rail line
25	be moved to the east so as to take it out of the North	25	and the fire buffer but no road.
Ľ.,			

CitiCourt, LLC 801.532.3441

*

	James C. Catlin	- -	April 24, 2001
<u></u>	SHEET 16 PAGE 121	T	PAGE 123
}	121	1	123 Reporter's Certificate
1	A. I never do it alone. I always call on	2	• • • • • • • •
2	experts who are knowledgeable in this field who have	3	STATE OF UTAH)) ss.
3	worked in this area to draw from their experience and to		COUNTY OF SALT LAKE)
4	offer their help in this. I don't usually make this	4	
1	biter there he must for is usually supported by	5	I, DIANA KENT, Registered Professional Reporter and Notary Public in and for the State of Utah,
5	determination by myself. It is usually supported by		do hereby certify:
6	others.	6	That prior to being examined, the witness,
17	Q. Okay. That's all I have.	7	James C. Catlin, had previously been duly sworn to tell
8			the truth, the whole truth, and nothing but the truth;
9	FURTHER EXAMINATION	8	That said deposition was taken down by me in
10	BY MR. BARNETT:	9	stenotype on April 24, 2001, at the place therein named
11	Q. I have one question based on that. You	10	and thereafter pages 4 through 122 were reduced to transcription under my direction.
1	talked about the resources that were devoted to	11	I further certify that after the said
12			deposition was transcribed, a reading copy was sent to
13	evaluating the lands in the state for potential	12	Mr Catlin for the witness to read and sign before a notary public, and return to me for filing with clerk of
14	designation as wilderness or suitability for wilderness	13	the said court.
15	designation. What sort of resources were spent in terms	14	I further certify that I am not of kin or otherwise associated with any of the parties to said
16	of people and hours on the North Cedar Mountains per se?	15	cause of action and that I am not interested in the
17	A. I haven't or we don't have a per unit list	15	outcome thereof.
18	for each area. But my guess is that, looking at the	110	WITNESS MY HAND AND SEAL this 7th day of
19	field work, that there were approximately three days	117	May, 2001.
20	spent in the field and probably four more days spent	18	
	spent in the mention and probably four more days opent	20	DIANA KENT, RPR/CSR
21	preparing information, analyzing it, and making use of	21	Notary Public Residing in Salt Lake County
22	it and preparing the report. That's a rough estimate.	22	Residing in sait base county
23	Q. Do you know how many people were involved in	23	My Commission Expires:
24	that?	24	June 22, 2004
25	A. I don't have the list here but I think it's	25	
	PAGE 122	T	PAGE 124
1	122	1	DATE TAKEN: April 24, 2001
1	between three and six different people involved. I		CASE: Private Fuel Storage
2	don't have the file here. But based on my review of it,	2	WITNESS CERTIFICATE PAGE
3	it's roughly in that area.	3	WINDSS CONTINUES PAGE
4	The stadist to sugar acaus		T TANCE CAMITAL DEDEDV DECIADE.
1 4		1.	I, JAMES CATLIN, HEREBY DECLARE:
l e .	Q. Okay. That's all I have.	4	That I am the witness referred to in the
5	Q. Okay. That's all I have.	4 5	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these
5 6		5	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and
5 6 7	Q. Okay. That's all I have.	5	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these
5 6 7 8	Q. Okay. That's all I have.	5 6 7	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony:
5 6 7 8 9	Q. Okay. That's all I have.	5	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony:
6 7 8	Q. Okay. That's all I have.	5 6 7 8 9 10	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony:
6 7 8 9 10	Q. Okay. That's all I have.	5 6 7 8 9	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony:
6 7 8 9 10 11	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony:
6 7 8 9 10 11 12	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony:
6 7 8 9 10 11 12 13	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
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6 7 8 9 10 11 12 13 14 15 16	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14 15	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17	That I am the witness referred to in the foregoing testimony: that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14 15 16	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14 15 16 17	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON - - - - - - - - - - - - - - - - - - -
6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. Okay. That's all I have.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	That I am the witness referred to in the foregoing testimony; that I have read the transcript and know the contents thereof; that with these corrections I have noted, this transcript truly and accurately reflects my testimony: PAGE-LINE CHANGE/CORRECTION REASON

801.532.3441

Exhibit E

Form 1221-2 (June 1969)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MANUAL TRANSMITTAL SHEET

Release 6-122 Date 1/10/2001

Subject

5

H-6310 - 1 - WILDERNESS INVENTORY AND STUDY PROCEDURES

- Explanation of Material Transmitted: This transmit H-6310 -1 WILDERNESS INVENTORY AND STUDY PROCEDURES, which is a handbook that provides the specific policy, general procedures, and guidance for wilderness inventories under the provisions of Section 201 of the Federal Land Policy and Management Act of 1976, (FLPMA) and the designation of Wilderness Study Areas under the provisions of Section 202 of the FLPMA.
- 2. <u>Reports Required</u>: None
- 3. <u>Material Superseded</u>: None
- 4. <u>Filing Instructions</u>:

INSERT:

H-6310-1

(Total:²⁶ sheets)

Sylvia V. Baca

Sylvia V. Baca Acting Director, Bureau of Land Management

WILDERNESS INVENTORY AND STUDY PROCEDURES

H-6310-1

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES

(2) Caution should be used in assessing the effect on naturalness that relatively minor human impacts create. Some human works are acceptable in designated wilderness; similar impacts in a inventory area should not result in a conclusion that the area lacks naturalness. An overly pure approach to assessing naturalness must be avoided.

c. <u>Outside Human Impacts</u>. Human impacts outside the inventory area will not normally be considered in assessing naturalness of a area. However, if an outside impact of major significance exists, it should be noted in the overall inventory area description and evaluated for its direct affects on the inventory area. Human impacts outside the area should not automatically lead to a conclusion that a inventory area lacks wilderness characteristics.

3. <u>Solitude or a Primitive and Unconfined Type of Recreation</u>. Determine if the area"... has outstanding opportunities for solitude or a primitive and unconfined type of recreation" The word "or" in this sentence means that an area only has to possess one or the other. It does not have to possess outstanding opportunities for both elements, does not need to have outstanding opportunities on every acre. There must be outstanding opportunities somewhere in the area. When Inventory areas are contiguous to WSAs, evaluation of outstanding opportunities should consider and document whether Inventory areas have outstanding opportunities either on their own, or in combination with adjacent WSAs.

a. <u>Outstanding Opportunities</u>. The Wilderness Act does not specify what was intended by "solitude or a primitive and unconfined type of recreation." In most cases, the two opportunities could be expected to go hand-in-hand. However, the outstanding opportunity for solitude may be present in an area offering only limited primitive recreation potential. Also, an area may be so attractive for recreation use that it would be difficult to maintain opportunity for solitude; e.g. around water.

b. Each inventory area must be assessed on its own merits or in combination with an adjacent wildemess area or WSA as to whether an outstanding opportunity exists. There must be no comparison among areas. It is not permissible to use any type of rating system or scale, whether numerical, alphabetical, or qualitative (i.e., high-medium-low), in making the assessment. Good judgment must be used in determining that outstanding opportunities either do or do not exist in each area.

BLM MANUAL

Rel. 6-122 1/10/2001

H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES

(iv) "Challenge" and "risk" are appropriate for consideration under this criterion. However, their presence is not necessary in order to conclude that an area does qualify under this criterion.

4. Supplemental Values.

a. Determine if the inventory area contains "... ecological, geological, or other features of scientific, educational, scenic, or historical value." The Wilderness Act states a wilderness "may also contain" these values. Supplemental values are not required for wilderness but their presence should be documented where they exist.

b. A finding that an area being inventoried lacks any or all of the supplemental values should not affect the determination of the existence of wilderness character.

C. <u>Boundary Adjustments</u>. Where substantially noticeable human caused impacts occur within an inventory area, reviewers should consider the opportunity to adjust the area boundary to exclude the human impacts. Minor human impacts normally will not require a boundary adjustment, but where there are several minor impacts, they should be evaluated as to their cumulative effect on the apparent naturalness of all or part of the area. Boundary adjustments should be made to identify the parts of the area that appear natural and parts that do not. When boundary adjustments are made, a decision must be made on whether the remaining portion of the area is of sufficient size to find that it has wilderness characteristics.

1. When multiple human impacts are considered to be substantially noticeable, caution must be used in relocating the boundary to define the part of the area found to have wilderness character. Natural portions of a area located between the individual human imprints should not be automatically excluded.

2. When the boundary of the area found to have wilderness character is adjusted due to human impacts, the boundary should, where possible, be located on the physical edge of the "imprint of man". In this case, the boundary must eliminate the "imprint of man" and as little adjacent land as necessary. The adjusted boundary must not be drawn on a "zone of influence" around the imprint for these reasons: (1) consistency between inventory teams in locating this "zone of influence" would be difficult to achieve, and (2) future impacts would in effect be able to encroach on a area creating a new "zone of influence."

BLM MANUAL

Rel. 6-122 1/10/2001

16

H-6310-1-WILDERNESS INVENTORY AND STUDY PROCEDURES

3. Developed rights-of-way (ROW) are treated like other significant impacts. When a transmission line or other developed ROW is located within a area and the decision is made to eliminate its impact on naturalness from the remainder of the area, the boundary should be drawn on the edge of the ROW.

4. As a general rule, the boundary of a area is to be determined based on evaluation of the human impacts within the area. It should not be further constricted on the basis of opportunity for solitude or primitive and unconfined recreation. An area can have wilderness character even though every acre within the area does not meet the outstanding opportunity criterion. In unusual cases it may be appropriate to consider adjusting the boundary based on the outstanding opportunity criterion; for example:

a. When a narrow finger of roadless land extends outside the bulk

of the area;

b. When land without wilderness characteristics penetrates the area in such a manner as to create narrow fingers of the area (e.g., cherrystem roads closely paralleling each other);

narrow boundary area.

c. When extensive private inholdings create a very congested and

These situations are expected to rarely occur. Good judgment will be required in locating boundaries under such conditions so as to exclude only the minimum appropriate land. Boundary adjustments would not be necessary if the land in question possesses an outstanding opportunity for primitive and unconfined recreation.

D. <u>Possibility of the Area Returning to a Natural Condition</u>. An inventory area or portion of an inventory area in which human imprints are substantially noticeable, but which otherwise contains wilderness characteristics, may be further considered for designation as a WSA when it is reasonable to expect that human imprints will return or can be returned to a substantially unnoticeable level either by natural processes or by hand labor.

BLM MANUAL

Rel. 6-122 1/10/2001 Exhibit F

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WSA ACREAGE: 0

UNIT NAME: NORTH CEDAR MOUNTAINS

UNIT NO. 🕤

1

UNIT ACREAGE: 16,089

1. <u>AREA DESCRIPTION</u>: Unit 087 is located in the north-central portion of Tooele County, Utan, approximately 58 miles east of Wendover and oU miles west of Salt Lake City, via Interstate-80. Located at the northern end of the Cedar Mountain Range, Unit 087 is basically polygonal in shape. Dimensions vary, depending of directions measured, but approximates for general description are 5.5 miles independ 7.0 miles long.

2. WILDERNESS CHARACTERIS

A. SIAL second contract the access of rabits and and an environment of the pair fand. State land is not found in the unit.

8. MATURAL-SS: The intrint of man's work is unconstant, and encounter in the Rorth Cenar Monitains. The committive effect of same some large impacts are considerably evident within the relatively small unit.

Some interior hillsides are untranmeled by man and arrected by the forces of nature. However, because of the openness and exposure to other imprints, a feeling of subline baturalness is lacking.

Twenty-seven impacts an activities were identified; a comulative network of over 11 miles of ways" were recorded within the unit's boundaries. Lee's Canyon "way" follows a drainage and cuts a six-mile path through the southeast and of the North Cedars, impacting in its course the 5,000 acre parcel making up that end of the unit. Other imprints along this access route includes quarries, livestock trails, and motorcycle paths.

C. OUTSTANDING OPPORTUNITIES;

(1) <u>SOLITUDE</u>: The upper elevations and inner portion of the unit provide scattered opportunities for solitude. Occasional vegetative covering, mountainous topography, and lack of penetrating roads, are evident. The lower, dutside portions of the unit lack outstanding opportunities for solitude due to the sparse vegetative cover, relative open terrain and the cumulative effect of many impacts in the unit.

Feelings of isolation are seldom complicented by winding canyons. Vegetation canopies and screening are lacking, and therefore do not aid in an outstanding feeling of solitude.

(2) PRIMITIVE AND UNCONFINED RECREATION: Opportunities for a primitive and unconfined type of recreation which exist in the North Cedars are hunting, horseback riding, hiking, wildlife observation and signiseeing. However, these apportunities are not considered "outstanding" by the wilderness inventory teams. Wildlife populations and numbers are few. Terrain for biking and horseback riding is not unique in nature and does not provide outstanding opportunities for these recreation types. Sightseeing is encumbered by many outside activities and interior inpacts of man.

D. <u>SUPPLEMENTAL VALUES</u>: Rock windows, sawtooth ridges and small caves carved in cliffs and terraces are common throughout the northern section of the unit. These are all remnants, displays cut by either the Bonneville or Provo levels of ancient Lake Bonneville, and are considered to be typical geological formations, common to the Bonneville Basin, and characteristic to all 14 units undergoing intensive inventory on the Salt Lake District.

Hodorn history (ou, bus tell is solution upon the attit. Hasting of today dividing the two Codar homeoarus mines was once the route of the by a number of pictures are splits to a solution definite definite time automotion and splits to a solution definite definite time automotion and a solution are spectra to the highly find the position of the Hasting's encode seawhile anti-typing.

History onematy we have a straight of the end of a straight of the straight

3. SURMARY OF COMMENTS: No specific comments wars recriment. Promotion was given to this will only by those and commented generally, fistic affuncts by number and stating that there units should be constructed for Wilderness Study Area designation.

4. DECISION: Dropped from further wilderness invatory and review.

5. RAFIONALE FOR DECISION: Size and mathemathess, to a George, have placed this unit into the intensive inventory place of the wilderness review The lack of "outstanding" potential, or opportunity for solutude and/or a primitive and unconfined recreational experience should drop it from further wilderness inventory consideration. Man's imprints are substantially noticeable within the unit. Natural screening contributes little to hide or enclose man and his contrasting influences. Recreation opportunities exist but all are encumbered by man's developments.

at and a

STORE TRANS



Exhibit G

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Protect WILD UTAH	<u>Main</u> Page	<u>Join</u> Email alert List	$\frac{\frac{What}{YOU}}{\frac{Can}{Do}}$	<u>Join</u> SUWA	<u>Contact</u> <u>Us</u>	<u>Photo</u> Gallery	Citizen's Wilderness Proposal
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America's Redrock Wilderness Bill: A Call to Action

- America's Redrock Wilderness Act is a bill to designate wilderness areas on those Utah BLM lands which were identified by the Utah Wilderness Coalition inventory as having wilderness qualities.
- The full text of the bills from the 105th Congress, the 106th Congress, and current information in the status of bills is available from the Library of Congress' "Thomas" web site: (H.R. 1500), (S. 773),(105th Congress) H.R. 1732, S. 861 (106th Congress). (Please note: The bill must be reintroduced in each new Congress, so the bill number changes).
- <u>Current Congressional cosponsors of America's Redrock Wilderness Act</u> are listed here. If your Representative or Senators are not on the list, please write and ask them to cosponsor *America's Redrock Wilderness Act*. If they are already on the list, please write to say thank you. For contact addresses and current Congressional positions on these bills, visit <u>Project Vote Smart</u>.

America's Redrock Wilderness Act in the 107th Congress.

America's Redrock Wilderness Act was re-introduced in both chambers of Congress on April 26, 2001, and we're excited and invigorated to announce RECORD NUMBERS of cosponsors upon introduction, beating the record we've set in every successive Congress! In his statement upon filing the bill, Sen. Richard Durbin (D-IL) said, "Passage of America's Red Rock Wilderness Act is essential to protect a national treasure for future generations of Americans. It provides wilderness protection for magnificent canyons, sheer red rock cliffs, spectacular vistas, and rock formations unlike any on this planet." And on the House side, House champion Rep. Maurice Hinchey (D-NY) re-introduced the bill for the fifth consecutive session by stating "The Redrock Wilderness is already owned by all of the people of the United States and should be considered a national treasure like the Grand Canyon or the Statue of Liberty. The terrain cannot bear much use or development and the treasures it holds are too rare and special to be exploited. These lands and the wildlife that inhabit them deserve the protection that permanent wilderness designation would offer."

History:

For more than twenty years Utah conservationists have been working to add the last great blocks of undeveloped, Bureau of Land Management (BLM)-administered public land in Utah to the National Wilderness Preservation System. These lands harbor some of the largest and finest desert roadless areas to be found anywhere in the world. They include the huge canyon systems of the Colorado, Green, San Juan, and Dolores rivers; the intimate slickrock narrows of the Escalante, Dirty Devil, Paria, and Virgin rivers; the vast table-lands and massive cliff-walls of the Kaiparowits Plateau, the Book Cliffs, and the Grand Staircase; and the isolated mountain ranges and desert riparian areas of Utah's Great Basin country.

Throughout southeastern Utah, proposed BLM wilderness areas surround and connect eight of Utah's nine national park, monument, and recreation areas. These BLM lands easily equal their neighboring national parklands in scenic beauty, in opportunities for primitive recreation, and in ecological importance. But unlike the parks, most Utah BLM wildlands lack any form of long-

term protection.

In 1985, after extensive field research by scores of citizen volunteers, Utah conservationists announced a "Citizens' Proposal" to protect over five million acres of BLM land in Utah within the National Wilderness Preservation System. In 1999, that Citizens' Proposal was updated after a dataintensive, two-year-long <u>new inventory</u> process. To date, more than 160 local and national environmental groups have endorsed the Citizens' Proposal by joining forces on the Utah Wilderness Coalition.

In 1989, the Citizens' Proposal was introduced into Congress as a bill, H.R. 1500, by former Utah Congressman Wayne Owens, and in 1993, was reintroduced as "America's Redrock Wilderness Act" by Representative Maurice Hinchey of New York. As an index of the nationwide support for America's Redrock Wilderness, in 1998 during the 105th Congress 136 members of the U.S. House of Representatives cosponsored the bill. In 1997, Senator Dick Durbin of Illinois introduced S. 773, the Senate version of America's Redrock Wilderness Act. America's Redrock Wilderness Act was was named **H.R 1732** in the House, and **S. 861** in the Senate in the 106th Congress.

Despite this promising start, the future of Utah's BLM wilderness is now gravely at risk. Among the threats are the <u>1866 Mining Act (R.S. 2477)</u> and Utah Representative Jim Hansen's attacks on the <u>Grand Staircase-Escalante National Monument</u>. Please call or write your Representative and Senators and ask them to cosponsor America's Redrock Wilderness Act.



Frequently Asked Questions:

If you have a question which is not answered here, please contact us.

Who gave authority to introduce the Citizen's Wilderness Proposal as America's Redrock Wilderness Act?

Any member of Congress can introduce any wilderness proposal, regardless of whether the federal agency involved has any recommendation. The public at large can develop its own proposal for any member of Congress to introduce.

What happened to bill number H.R.1500?

Since a bill must be re-introduced to each new Congress, the same bill will not always have the same number. In 1999, Utah's anti-wilderness leader Jim Hansen (R-UT) reserved the number HR1500 for his own use. The whole story is in the SUWA Summer 1999 Newsletter: <u>Hansen's</u> High Jinks: The Purloined Bill Number and Other Sneaky Stuff

Since America's Redrock Wilderness Act is opposed by Utah's elected representatives and senators, why should I support it?

America's Redrock Wilderness Act was originally introduced by Utah representative Wayne Owens. A statewide poll conducted in 1997 by Wirthlin Worldwide showed that 9 out of 10 Utah residents believe they have a responsibility to preserve undeveloped lands for future generations. Utah's elected officials my represent general public opinion on other issues, but they are not representing Utah citizen's on the issue of wilderness. Utah's wildlands are Federal public lands that are owned in common by all citizens of the United States.. Citizens outside of Utah who love and treasure this amazing landscape have every right to demand its protection.