

**APPENDIX H**  
**DEVELOPMENTAL ANALYSIS OF NEW ENVIRONMENTAL**  
**MEASURES PROPOSED BY IDAHO POWER**



Table H-1. Developmental analysis of new sediment transport measures proposed by Idaho Power.

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-101	Develop and implement a program to monitor beach and terrace erosion, substrate, and gravel (101P).	Idaho Power	\$0	\$280,000	\$280,000	Estimate based on IPC 11-3-06 comment response—Appendix B.	Yes
IPC-102	Create a mitigation fund to be used by the Forest Service to restore and maintain 14 acres of sandbars on or adjacent to National Forest System lands between Hells Canyon dam and the confluence of the Snake and Salmon rivers (102P)	Idaho Power, Forest Service	\$0	\$534,100	\$534,100	Staff estimate based on \$937,000 per year for first 10 years	Yes
Total Idaho Power Proposal			\$0	\$814,100	\$814,100		
Subtotal Staff Alternative			\$0	\$814,100	\$814,100		

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Table H-2. Developmental analysis of new water quality measures proposed by Idaho Power.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-84	Implement one of two measures to fully meet the SR-HC TMDL Brownlee reservoir DO allocation (an average of 1,125 tons of oxygen during the summer into the transition zone of Brownlee reservoir): in-reservoir aeration or upstream phosphorus trading (4P).	Idaho Power	\$1,817,400	\$291,500	\$447,800	Staff estimate based on Idaho Power's Feb-05 AIR WQ-1 response.	Yes
IPC-103	Aerate Hells Canyon outflows using a forced air (blower) system at Hells Canyon powerhouse that would add 1,500 tons of oxygen per year (103P).	Idaho Power	\$635,000	\$120,000	\$184,700	Staff estimate based on IPC estimate provided on April 26, 2007.	Yes
IPC-104	Install and operate a destratification system in the Oxbow bypassed reach at the deep pool just upstream of the Indian Creek confluence to prevent anoxic conditions at this location (104P).	Idaho Power	\$52,000	\$11,100	\$16,000	Staff estimate based on IPC estimate provided on April 26, 2007.	Yes
IPC-85	Install Hells Canyon dam spillway flow deflectors to reduce TDG levels in the tailrace of Hells Canyon dam and the Snake River downstream of the dam (5P).	Idaho Power	\$2,060,000	\$0	\$182,700	Staff estimate based on IPC estimate provided on April 26, 2007.	Yes

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<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-105	Install Brownlee dam spillway flow deflectors to reduce TDG levels in Oxbow and Hells Canyon reservoirs and the Snake River downstream of Hells Canyon dam (105P).	Idaho Power	\$2,560,000	\$0	\$197,500	Staff estimate based on IPC estimate provided on April 26, 2007.	Yes
IPC-106	Evaluate and implement measures on the Oxbow dam spillway or bypassed reach to reduce TDG levels as necessary to meet the SR-HC TMDL load allocation (106P).	Idaho Power	\$4,400,000	\$2,700	\$278,200	Staff estimate based on IPC estimate provided on April 26, 2007.	Yes
IPC-107	Adaptively manage TDG-abatement measures to ensure that Idaho Power meets its TDG load allocation below each of the project's dams (107P)	Idaho Power	\$0	\$2,000	\$2,000	Staff estimate.	Yes
IPC-108	Work with ODEQ and IDEQ to develop a TDG monitoring plan that would include monitoring during spill to determine compliance with the TMDL load allocation assigned to Idaho Power (108P).	Idaho Power	\$0	\$37,200	\$37,200	Staff estimate.	Yes
IPC-109	Implement Idaho Power's Temperature Adaptive Management Plan, which would (1) define the extent of the project's temperature responsibility, (2) evaluate potential measures and select the appropriate measure, and (3) implement the appropriate measure (109P).	Idaho Power Idaho Power	\$4,210,000	\$158,600	\$452,000	Staff estimate based on IPC estimate provided on April 26, 2007.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
Total Idaho Power Proposal			\$15,734,400	\$623,100	\$1,798,100		
Subtotal Staff Alternative			\$15,734,400	\$623,100	\$1,798,100		

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Table H-3. Developmental analysis of new operational measures proposed by Idaho Power.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Annualized Reduction in Energy Benefit	Comment	Included in Staff Alternative
IP-OPs	Protect peak spawning periods for smallmouth bass and crappie by limiting Brownlee reservoir drafts to no more than 1 foot from the highest elevation reached during a 30-day period starting on May 21, and by maintaining an elevation of at least 2,069 feet msl from the end of the 30-day period through July 4 (7Pa).	Idaho Power				\$0	No incremental power benefits estimated by Idaho Power relative to current conditions	Yes
	Subtotal Staff Alternative (this table)		\$0	\$0	\$0	\$0		
	Subtotal Staff Alternative (IPC table)		\$0	\$0	\$0	\$0		
	Total Staff Alternative		\$0	\$0	\$0	\$0		

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Table H-4. Developmental analysis of new aquatic resources measures proposed by Idaho Power.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-110	Implement the fall Chinook salmon spawning and gravel monitoring plan described in appendix B of Idaho Power's comments on the draft EIS (110P).	Idaho Power, Forest Service				Costs associated with this measure are included in IPC-101 in table H-1.	Yes
IPC-15	Conduct pathogen survey in the Pine-Indian-Wildhorse core area to support development of a pathogen risk assessment plan (8Pa)	Idaho Power	\$0	\$34,700	\$34,700	Idaho Power estimate with staff parameters.	Adopted, but not included in the staff subtotal to avoid double counting. See Interior-87 in table I-4.
IPC-7	Prepare and implement a plan to allow for the capture of resident salmonids and other species migrating upstream and for their transfer to areas above Hells Canyon and Oxbow dams. The plan includes modification of the Hells Canyon fish trap to capture juvenile salmonids, construction of facilities for sorting and holding fish and for scanning PIT-tag returns, and potentially expansion of year-round operations. The plan also includes a provision to construct a fish trap at Oxbow dam a minimum of 5 years after the Hells Canyon trap has been modified (8Pb.i).	Idaho Power	\$2,800,000	\$369,500	\$675,300	Idaho Power estimate with staff parameters.	Adopted, but not included in the staff subtotal to avoid double counting. See Interior-87 in table I-4

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-20	Purchase two new tanker trucks to support fish passage plan (8Pb.ii).	Idaho Power	\$400,000	\$0	\$43,700	Idaho Power estimate with staff parameters.	Adopted, but not included in the staff subtotal to avoid double counting. See Interior-87 in table I-4.
IPC-14	The plan also includes a provision to construct a fish trap at Oxbow dam a minimum of 5 years after the Hells Canyon trap has been modified (8Pb.iii.).	Idaho Power	\$2,800,000	\$153,100	\$458,900	Idaho Power estimate with staff parameters.	Adopted, but not included in the staff subtotal to avoid double counting. See Interior-87 in table I-4.
IPC-16	Design, construct, and monitor a permanent monitoring weir at Pine Creek to establish a long-term monitoring program of fluvial fish migrating upstream and downstream in the Pine Creek system (8Pf).	Idaho Power	\$2,500,000	\$92,400	\$365,500	Idaho Power estimate with staff parameters.	Adopted, but not included in the staff subtotal to avoid double counting. See Interior-87 in table I-4.
IPC-18	Prepare and implement a tributary habitat enhancement plan within the Pine Creek, Indian Creek, and Wildhorse River basins and smaller tributaries to the Hells Canyon Complex reservoirs (8Pc).	Idaho Power	\$8,500,000	\$0	\$928,400	Idaho Power estimate with staff parameters.	Adopted, but not included in the staff subtotal to avoid double counting. See ST-AQ-Trib.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-6	Supplement marine-derived nutrients to enhance the forage base within bull trout rearing areas (Pine, Indian, and Wildhorse core area) (8Pd).	Idaho Power	\$0	\$40,000	\$40,000	Idaho Power estimate with staff parameters. Idaho Power includes these costs within the Oxbow hatchery and Rapid River hatchery upgrades.	Yes
IPC-21	Conduct Eagle Creek presence/absence survey to determine, with statistical probability, the presence or absence of bull trout within the Eagle Creek basin (8Pe).	Idaho Power	\$0	\$42,700	\$42,700	Idaho Power estimate with staff parameters.	Yes
IPC-13	Evaluate the feasibility of, and possibly implement, an experimental brook trout suppression program in Indian Creek (8Pg).	Idaho Power	\$0	\$51,700	\$51,700	Idaho Power estimate with staff parameters.	Yes
IPC-19	Assess water quality-related effects on early life stages of white sturgeon in the Swan Falls-Brownlee reach (11Pa).	Idaho Power	\$0	\$24,000	\$24,000	Idaho Power estimate with staff parameters.	Yes
IPC-17	Translocate reproductive-sized white sturgeon into the Swan Falls-Brownlee reach to increase spawner abundance and population productivity, if water quality is found to be adequate and if genetic and demographic risks to the donor population are found to be acceptable (11Pb).	Idaho Power	\$0	\$20,600	\$20,600	Idaho Power estimate with staff parameters.	Yes
IPC-22	Develop an experimental conservation aquaculture plan to maintain adequate population	Idaho Power	\$0	\$28,000	\$28,000	Idaho Power estimate with staff parameters.	Yes

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-12	size and genetic variability of white sturgeon in the Swan Falls-Brownlee reach, if approved IDFG and ODFW (11Pc). Make periodic population assessments to monitor white sturgeon populations in the Swan Falls-Brownlee, Brownlee-Hells Canyon, and Hells Canyon-Lower Granite reaches of the Snake River (11Pd).	Idaho Power	\$0	\$95,900	\$95,900	Idaho Power estimate with staff parameters.	Yes
IPC-23	Monitor genotypic frequencies of white sturgeon between Shoshone Falls and Lower Granite dams (11Pe).	Idaho Power	\$0	\$2,300	\$2,300	Idaho Power estimate with staff parameters. Scope restricted to Swan Falls to Lower Granite dams, upstream areas are covered under the mid-Snake licenses.	Yes
Total Idaho Power Proposal			\$17,000,000	\$954,900	\$2,811,700		
Subtotal Staff Alternative			\$0	\$305,200	\$305,200		

Table H-5. Developmental analysis of new hatchery measures included in the Idaho Power Proposal.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-10a	Make improvements to the Pahsimeroi fish hatchery to control pathogens (IPC 10Pa).	Idaho Power	\$6,320,000	\$187,500	\$877,800	Idaho Power estimate with staff parameters.	Yes
IPC-10b	Develop a locally adapted steelhead broodstock at Pahsimeroi hatchery (IPC 10Pa).	Idaho Power	\$20,000	\$8,500	\$10,700	Idaho Power estimate with staff parameters.	Yes
IPC-10c	Monitor and evaluate hatchery performance at Pahsimeroi fish hatchery through one FTE fish biologist (IPC 10Pa).	Idaho Power	\$0	\$46,200	\$46,200	Idaho Power estimate with staff parameters.	Yes
IPC-9a	Make improvements to the Oxbow fish hatchery by constructing adult holding pond and spawning facilities, distributing carcasses, and generally upgrading the hatchery facilities (IPC 10Pb).	Idaho Power	\$2,783,000	\$24,900	\$328,900	Idaho Power estimate with staff parameters.	Yes
IPC-9b	Make improvements to the Oxbow fish hatchery by expanding the fall Chinook rearing program (IPC 10Pb).	Idaho Power	\$2,500,000	\$10,000	\$283,100	Idaho Power estimate with staff parameters.	Yes
IPC-9c	Monitor and evaluate hatchery performance at Oxbow hatchery through one FTE fish biologist (IPC 10Pb).	Idaho Power	\$0	\$46,200	\$46,200	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-8a	Make improvements to the Niagara Springs fish hatchery by expanding the hatchery building, acquiring an additional smolt tanker, acquiring a fish marking unit, upgrading employee housing, and monitoring and evaluating hatchery performance (IPC 10Pc).	Idaho Power	\$1,550,000	\$9,200	\$178,500	Idaho Power estimate with staff parameters.	Yes
IPC-8b	Acquire a fish marking unit (IPC 10Pc).	Idaho Power	\$750,000	\$4,600	\$86,500	Idaho Power estimate with staff parameters.	Yes
IPC-8c	Monitor and evaluate hatchery performance at Niagara Springs through one FTE fish biologist (IPC 10Pc).	Idaho Power	\$0	\$46,200	\$46,200	Idaho Power estimate with staff parameters.	Yes
IPC-11a	Make improvements to the Rapid River fish hatchery by constructing an adult holding pond and spawning facilities, distributing carcasses, upgrading employee housing, generally upgrading the hatchery facilities, constructing an offsite smolt acclimation/ adult collection facility, and monitoring and evaluating hatchery performance (IPC 10Pd).	Idaho Power	\$3,083,000	\$39,700	\$376,400	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-11b	Monitor and evaluate hatchery performance at Rapid River hatchery through one FTE fish biologist (IPC 10Pd).	Idaho Power	\$0	\$46,200	\$46,200	Idaho Power estimate with staff parameters.	Yes
Total Idaho Power Proposal			\$17,006,000	\$469,200	\$2,326,700		
Subtotal Staff Alternative			\$17,006,000	\$469,200	\$2,326,700		

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Table H-6. Developmental analysis of new terrestrial resources measures proposed by Idaho Power.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-86	Acquire, enhance, and manage approximately 22,761 acres of upland and 821 acres of riparian habitat near the Hells Canyon Project reservoirs and downstream of Hells Canyon dam to mitigate for the estimated effects of project operations on wildlife (12P).	Idaho Power	\$16,190,700	\$0	\$1,768,400	Idaho Power estimate	Yes
IPC-88a	In cooperation with ODFW, enhance habitat on two Snake River islands (Hoffman and Porter) for waterfowl and for threatened, endangered, candidate, and special status species (13P).	Idaho Power	\$0	\$6,000	\$6,000	Idaho Power estimate with staff parameters.	Yes
IPC-88b	In cooperation with ODFW and IDFG, enhance habitat on two Snake River islands (Gold and Patch) for waterfowl and for threatened, endangered, candidate, and special status species (13P).	Idaho Power	\$0	\$20,000	\$20,000	Idaho Power estimate with staff parameters.	Yes
IPC-87	Cooperate with state and federal wildlife management agencies to enhance low-elevation riparian habitat and reintroduce mountain quail in areas adjacent to the Hells Canyon Project reservoirs, providing \$20,000/yr for 5 yrs (14P).	Idaho Power	\$100,000	\$0	\$9,600	Idaho Power estimate with staff parameters.	Yes

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-90	Through an interdisciplinary team, develop and implement an integrated wildlife habitat program to manage wildlife resources (15P).	Idaho Power	\$663,200	\$954,300	\$1,026,700	Extrapolated from Idaho Power estimate.	Yes
IPC-89	Develop and implement an operation and maintenance plan for the Pine Creek-Hells Canyon transmission line to minimize effects on wildlife, protect wildlife resources, and enhance habitat conditions (16P).	Idaho Power	\$0	\$5,500	\$5,500	Idaho Power estimate.	Yes
IPC-1	Formalize cooperative relationships to accomplish noxious weed control and non-native invasive weed management, site monitoring, and re-seeding along the Snake River corridor from Weiser downstream to the confluence of the Salmon River (18P).	Idaho Power	\$0	\$50,000	\$50,000	Idaho Power estimate.	Yes
IPC-2	Formalize cooperative relationships, including establishment of a rare plant advisory board, to protect and monitor sensitive plant sites along the Snake River corridor from the headwaters of Brownlee reservoir downstream to the confluence of the Salmon River (19P).	Idaho Power	\$0	\$6,000	\$6,000	Idaho Power estimate.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-3	Develop and implement an operation and maintenance plan for the Pine Creek-Hells Canyon transmission line to minimize effects on rare plants, protect botanical resources, and enhance habitat conditions. (20P and 21P).	Idaho Power	\$0	\$4,200	\$4,200	Idaho Power estimate.	Yes
Total Idaho Power Proposal			\$16,953,900	\$1,046,000	\$2,896,400		
Subtotal Staff Alternative			\$16,953,900	\$1,046,000	\$2,896,400		

Table H-7. Developmental analysis of new cultural resources measures proposed by Idaho Power.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-30	Monitor sites along transmission line 945 that are eligible for inclusion on the National Register (22P)	Idaho Power	\$0	\$2,400	\$2,400	Idaho Power estimate with staff parameters.	Yes
IPC-31	Monitor the known burial site on Oxbow reservoir (23P).	Idaho Power	\$0	\$800	\$800	Idaho Power estimate with staff parameters.	Yes
IPC-34	Monitor selected known eligible sites on Oxbow and Hells Canyon reservoirs (24P).	Idaho Power	\$0	\$20,800	\$20,800	Idaho Power estimate with staff parameters.	No
IPC-33	Monitor selected known eligible sites on Brownlee reservoir (25P).	Idaho Power	\$0	\$20,100	\$20,100	Idaho Power estimate with staff parameters.	No
IPC-32	Monitor selected known eligible sites downstream of Hells Canyon dam (26P).	Idaho Power	\$0	\$65,000	\$65,000	Idaho Power estimate with staff parameters.	No
IPC-43	Stabilize approximately 20 archaeological sites downstream of Hells Canyon dam after identifying sites requiring stabilization (27P).	Idaho Power	\$0	\$106,700	\$106,700	Idaho Power estimate with staff parameters.	Yes
IPC-44	Stabilize seven archaeological sites on Brownlee reservoir (28P).	Idaho Power	\$0	\$34,700	\$34,700	Idaho Power estimate with staff parameters.	Yes
IPC-26	Recover archaeological data at four archaeological sites on Brownlee reservoir to prevent possible damage by reservoir operations (29P).	Idaho Power	\$0	\$35,400	\$35,400	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-35	Establish Native American interpretive sites on Brownlee reservoir to enhance visitors' awareness of Native American presence and land use in the project area (30P).	Idaho Power	\$22,000	\$2,200	\$4,600	Idaho Power estimate with staff parameters.	Yes
IPC-36	Establish Native American interpretive sites on Oxbow and Hells Canyon reservoirs to enhance visitors' awareness of Native American presence and land use in the project area (31P).	Idaho Power	\$11,000	\$1,100	\$2,300	Idaho Power estimate with staff parameters.	Yes
IPC-28	Establish European-American interpretive sites on Brownlee, Oxbow, and Hells Canyon reservoirs to enhance visitors' awareness of European-American presence and land use in the project area (32P).	Idaho Power	\$22,000	\$2,200	\$4,600	Idaho Power estimate with staff parameters.	Yes
IPC-25	Establish Asian-American interpretive sites on Brownlee, Oxbow, and/or Hells Canyon reservoirs to enhance visitors' awareness of Asian-American presence and land use in the project area (33P)	Idaho Power	\$22,000	\$2,200	\$4,600	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-27	Support European-American and Asian-American interpretive projects by assisting local community museums with collections acquisition, display, and curation related to Hells Canyon area trappers, miners, homesteaders, ranchers, and river runners of European and Asian descent (34P).	Idaho Power	\$0	\$5,800	\$5,800	Idaho Power estimate with staff parameters.	Yes
IPC-37a	Provide support for Native American programs of the Burns Paiute Tribe in its efforts to obtain funding for participating in and/or administering cultural resources PME measures (35Pa).	Idaho Power	\$0	\$10,000	\$10,000	Staff estimate.	Yes
IPC-37b	Provide support for Native American programs of the Burns Paiute Tribe in its efforts to educate its youth by providing scholarship/ training funds (35Pb).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate. If this commitment of funding is not included in a new license, it would in no way preclude Idaho Power from fulfilling this commitment outside the license.	No
IPC-37c	Provide support for Native American programs of the Burns Paiute Tribe in its efforts to obtain funding to facilitate several cultural enhancement programs (35Pc).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-39a	Provide support for Native American programs of the Confederated Tribes of the Warm Springs Indian Reservation in its efforts to obtain funding for participating in and/or administering cultural resources PME measures (36Pa).	Idaho Power	\$0	\$10,000	\$10,000	Staff estimate.	Yes
IPC-39b	Provide support for Native American programs of the Confederated Tribes of the Warm Springs Indian Reservation in its efforts educate its youth by providing scholarship/ training funds (36Pb).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate. If this commitment of funding is not included in a new license, it would in no way preclude Idaho Power from fulfilling this commitment outside the license.	No
IPC-39c	Provide support for Native American programs of the Confederated Tribes of the Warm Springs Indian Reservation in its efforts to obtain funding to facilitate several cultural enhancement programs (36Pc).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate.	Yes
IPC-40a	Provide support for Native American Programs of the Nez Perce Tribe in its efforts to obtain funding for participating in and/or administering cultural resources PME measures (37Pa).	Idaho Power	\$0	\$10,000	\$10,000	Staff estimate.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-40b	Provide support for Native American programs of the Nez Perce Tribe in its efforts to educate its youth by providing scholarship/ training funds (37Pb).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate. If this commitment of funding is not included in a new license, it would in no way preclude Idaho Power from fulfilling this commitment outside the license.	No
IPC-40c	Provide support for Native American programs of the Nez Perce Tribe in its efforts to obtain funding to facilitate several cultural enhancement programs (37Pc)	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate.	Yes
IPC-41a	Provide support for Native American Programs of the Confederated Tribes of the Umatilla Indian Reservation in its efforts to obtain funding for participating in and/or administering cultural resources PME measures (38Pa).	Idaho Power	\$0	\$10,000	\$10,000	Staff estimate.	Yes
IPC-41b	Provide support for Native American Programs of the Confederated Tribes of the Umatilla Indian Reservation in its efforts to educate its youth by providing scholarship/ training funds (38Pb).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate. If this commitment of funding is not included in a new license, it would in no way preclude Idaho Power from fulfilling this commitment outside the license.	No

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-41c	Provide support for Native American programs of the Confederated Tribes of the Umatilla Indian Reservation in its efforts to obtain funding to facilitate several cultural enhancement programs (38Pc).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate.	Yes
IPC-38a	Provide support for Native American programs of the Confederated Tribes of the Shoshone Paiute Indian Reservation in its efforts to obtain funding for participating in and/or administering cultural resources PME measures (39Pa).	Idaho Power	\$0	\$10,000	\$10,000	Staff estimate.	Yes
IPC-38b	Provide support for Native American programs of the Shoshone Paiute Tribe in its efforts to educate its youth by providing scholarship/ training funds (39Pb).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate. If this commitment of funding is not included in a new license, it would in no way preclude Idaho Power from fulfilling this commitment outside the license.	No
IPC-38c	Provide support for Native American programs of the Shoshone Paiute Tribe in its efforts to obtain funding to facilitate several cultural enhancement programs (39Pc).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate.	Yes

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-42a	Provide support for Native American Programs of the Shoshone-Bannock Tribes in its efforts to obtain funding for participating in and/or administering cultural resources PME measures (40Pa).	Idaho Power	\$0	\$10,000	\$10,000	Staff estimate.	Yes
IPC-42b	Provide support for Native American Programs of the Shoshone-Bannock Tribes in its efforts to educate its youth by providing scholarship/ training funds (40Pb).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate. If this commitment of funding is not included in a new license, it would in no way preclude Idaho Power from fulfilling this commitment outside the license.	No
IPC-42c	Provide support for Native American Programs of the Shoshone-Bannock Tribes in its efforts to obtain funding to facilitate several cultural enhancement programs (40Pc).	Idaho Power	\$0	\$11,700	\$11,700	Staff estimate.	Yes
IPC-24	Fund additional Section 106 projects to protect sites and mitigate for any unforeseen adverse effects attributed to Hells Canyon Project operations (41P).	Idaho Power	\$0	\$0	\$0	Cannot estimate until projects identified	Yes
Total Idaho Power Proposal			\$77,000	\$499,800	\$508,200		
Subtotal Staff Alternative			\$77,000	\$323,700	\$332,100		

Table H-8. Developmental analysis of new recreation measures proposed by Idaho Power.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-76	Provide additional boat moorage on Hells Canyon Project reservoirs to improve angling access (45P).	Idaho Power	\$180,000	\$3,300	\$19,300	Idaho Power estimate with staff parameters.	Yes
IPC-67	Enhance litter and sanitation plan to improve litter cleanup and access to portable and vault toilets at dispersed recreational sites (46P).	Idaho Power	\$60,000	\$55,000	\$61,600	Idaho Power estimate with staff parameters.	Yes
IPC-74	Develop and implement an integrated Information and Education (I&E) Plan to promote protection and preservation of cultural, natural, and historical resources through education (47P).	Idaho Power	\$1,380,000	\$18,400	\$149,800	Idaho Power estimate with staff parameters.	Yes
IPC-75	Coordinate the prioritization of law enforcement resource use among appropriate law enforcement agencies to address public safety issues (48P).	Idaho Power	\$0	\$15,000	\$15,000	Idaho Power estimate with staff parameters.	Yes
IPC-79	Develop and implement a Recreation Adaptive Management Plan to identify and address the adequacy of Idaho Power's Recreation Plan over the life of the new license (49P).	Idaho Power	\$1,270,000	\$58,000	\$108,100	Idaho Power estimate with staff parameters. Measure includes FS 4e condition 12.	Yes
IPC-70	Enhance road maintenance to improve public safety and further protect at-risk cultural and natural resources (50P).	Idaho Power	\$20,000	\$25,600	\$27,800	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-81	Perform operation and maintenance at Idaho Power-enhanced BLM and Forest Service reservoir-related recreational sites to benefit recreation, provide public access, enhance visitor services and user satisfaction, and reduce the responsibilities of federal agencies to provide operations and maintenance (O&M) services (51P).	Idaho Power	\$0	\$85,300	\$85,300	Idaho Power estimate with staff parameters.	Yes
IPC-65	Enhance Eagle Bar dispersed recreational site and improve boat ramp access to Hells Canyon reservoir (52P).	Idaho Power	\$150,000	\$0	\$15,300	Idaho Power estimate with staff parameters.	Yes
IPC-57	Develop site plan for Big Bar recreational site to accommodate recreational use and provide cultural and natural resource protection (53P).	Idaho Power	\$50,000	\$10,000	\$15,500	Idaho Power estimate with staff parameters. O&M cost estimated by staff.	Yes
IPC-58	Enhance boat ramp and associated facilities at Big Bar Section D recreational site to improve access to lower Hells Canyon reservoir and provide cultural and natural resource protection (54P).	Idaho Power	\$249,900	\$0	\$25,500	Idaho Power estimate with staff parameters.	Yes
IPC-56	Develop site plan and enhance Eckels Creek dispersed recreational site to benefit recreation and provide cultural and natural resource protection (55P)	Idaho Power	\$30,000	\$0	\$3,100	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-68	Supplement the existing O&M budget to accommodate enhancements at Idaho Power-managed parks and recreational facilities (56P).	Idaho Power	\$0	\$85,300	\$85,300	Idaho Power estimate with staff parameters.	Yes
IPC-63	Develop and implement a site plan for the Copper Creek dispersed recreational site to benefit recreation and provide cultural and natural resource protection (57P).	Idaho Power	\$50,000	\$0	\$5,100	Idaho Power estimate with staff parameters.	Yes
IPC-77	Reconstruct Hells Canyon Park to benefit recreation, improve public access, and protect cultural and natural resources (58P).	Idaho Power	\$2,000,000	\$0	\$176,100	Idaho Power estimate with staff parameters.	Yes
IPC-54	Develop Airstrip A&B dispersed recreational site to benefit recreation, improve public access, and protect cultural and natural resources (59P).	Idaho Power	\$40,000	\$0	\$4,100	Idaho Power estimate with staff parameters.	Yes
IPC-59	Develop and implement a site plan for Bob Creek Section A dispersed recreational site to benefit recreation, improve public access, and protect cultural and natural resources (60P).	Idaho Power	\$50,000	\$0	\$5,100	Idaho Power estimate with staff parameters.	Yes

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-60	Develop and implement a site plan for Bob Creek Section B dispersed recreational site to benefit recreation, improve public access, and protect cultural and natural resources (61P).	Idaho Power	\$25,000	\$0	\$2,500	Idaho Power estimate with staff parameters.	Yes
IPC-61	Develop and implement a site plan for Bob Creek Section C dispersed recreational site to benefit recreation, improve public access, and protect cultural and natural resources (62P).	Idaho Power	\$50,000	\$0	\$5,100	Idaho Power estimate with staff parameters.	Yes
IPC-73	Develop and implement a site plan for Westfall dispersed recreational site to benefit recreation, improve public access, and protect cultural and natural resources (63P).	Idaho Power	\$60,000	\$0	\$6,100	Idaho Power estimate with staff parameters.	Yes
IPC-64	Enhance Copperfield boat launch area to benefit day-use activities (64P).	Idaho Power	\$100,000	\$0	\$9,500	Idaho Power estimate with staff parameters.	Yes
IPC-69	Implement a site plan for Oxbow boat launch to benefit recreation, improve public access, and protect cultural and natural resources (65P).	Idaho Power	\$80,000	\$0	\$7,600	Idaho Power estimate with staff parameters.	Yes
IPC-62	Implement a site plan for Carters Landing and Old Carters Landing recreational sites to benefit recreation, improve public access, and protect cultural and natural resources (66P).	Idaho Power	\$80,000	\$0	\$8,200	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-78	Reconstruct McCormick Park to meet current standards of services, benefit recreation, improve public access, and protect cultural and natural resources (67P).	Idaho Power	\$3,000,000	\$0	\$266,500	Idaho Power estimate with staff parameters.	Yes
IPC-66	Develop and implement a site plan for Hewitt and Holcomb Parks to accommodate recreational use and provide cultural and natural resource protection (68P).	Idaho Power	\$99,900	\$0	\$10,200	Idaho Power estimate with staff parameters.	Yes
IPC-55	Develop and implement a site plan for a low-water boat launch at or near Swedes Landing to improve boat access to Brownlee reservoir during seasonal reservoir drawdowns and periods of low reservoir levels (69P).	Idaho Power	\$250,000	\$0	\$25,200	Idaho Power estimate with staff parameters.	Yes
IPC-72	Develop and implement a site plan for Swedes Landing to benefit recreation, improve public access, and protect cultural and natural resources (70P).	Idaho Power	\$75,000	\$0	\$7,300	Idaho Power estimate with staff parameters.	Yes
IPC-71	Develop and implement a site plan for Spring recreational site to enhance recreational facilities and improve boat ramp access to Brownlee reservoir (71P).	Idaho Power	\$500,000	\$0	\$46,000	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-101	Complete a condition and safety inspection of Deep Creek Stairway/Trail #218 and correct any deficiencies found during inspection (21Se).		\$80,000	\$3,000	\$11,700	Staff estimate. Measure was subsequently adopted by Idaho Power for the FEIS.	Yes
Total Idaho Power Proposal			\$9,929,800	\$358,900	\$1,207,900		
Subtotal Staff Alternative			\$9,929,800	\$358,900	\$1,207,900		

Table H-9. Developmental analysis of new land use and aesthetic resources measures proposed by Idaho Power.

Identifier	Measure	Entity	Capital Cost	Annualized O&M Cost	Total Annualized Cost	Comment	Included in the Staff Alternative
IPC-53	Incorporate aesthetic concerns when upgrading or repairing the existing transmission line 945 (73P).	Idaho Power	\$20,000	\$3,300	\$5,500	Idaho Power estimate with staff parameters.	Yes
IPC-46	74. Develop standards and guidelines for designing new physical structures and modifying existing structures to achieve aesthetic and other goals (74P, 112P).	Idaho Power	\$35,000	\$0	\$3,800	Idaho Power estimate with staff parameters.	Yes
IPC-45	75. Establish standards and guidelines for the design of vegetation and hardscape elements and structures in developed areas to control noxious weeds and to achieve aesthetic and other goals (75P, 112P).	Idaho Power	\$55,000	\$0	\$6,000	Idaho Power estimate with staff parameters. Includes FS-24.	Yes
IPC-48	76. Implement a general aesthetic clean-up plan to enhance the quality of the recreational experience in specific areas (76P, 112P).	Idaho Power	\$215,000	\$4,600	\$28,100	Idaho Power estimate with staff parameters. Includes FS-22.	Yes
IPC-52	77. Replace guardrails and Jersey barriers with barriers of corten steel or other visually acceptable material, except where Jersey barriers function as barriers to slides and falling rocks along roads and developed areas (77P, 112P).	Idaho Power	\$160,000	\$0	\$13,900	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-50	78. Reduce the visual contrast of certain project facilities with their environment to improve aesthetics and enhance the recreational experience near those facilities (78P, 112P).	Idaho Power	\$304,000	\$4,100	\$32,900	Idaho Power estimate with staff parameters.	Yes
IPC-47	Cooperate with BLM and the Forest Service to develop and assist them with implementing proposed design standards and guidelines at specific BLM and Forest Service facilities, including the Spring recreational site on Brownlee reservoir (BLM), Copper Creek trailhead on Hells Canyon reservoir (BLM), and Big Bar and Eagle Bar on Hells Canyon reservoir (Forest Service) (79P).	Idaho Power	\$10,000	\$0	\$1,100	Idaho Power estimate with staff parameters.	Yes
IPC-49	Provide signs and/or facilities that interpret some elements of the Hells Canyon Project that cannot be effectively modified to reduce their visual contrast (80P).	Idaho Power	\$11,000	\$0	\$1,200	Idaho Power estimate with staff parameters.	Yes
IPC-51	Implement the common policies of the Hells Canyon Resource Management Plan to provide for the management, protection, and/or conservation of natural and cultural resources (81P).	Idaho Power	\$10,000	\$71,000	\$72,100	Idaho Power estimate with staff parameters.	Yes

<b>Identifier</b>	<b>Measure</b>	<b>Entity</b>	<b>Capital Cost</b>	<b>Annualized O&amp;M Cost</b>	<b>Total Annualized Cost</b>	<b>Comment</b>	<b>Included in the Staff Alternative</b>
IPC-113	Provide the Forest Service with a map and aerial photos depicting the approximate location of the project boundary, together with GIS shape files of the project boundary on National Forest System lands (113P).	Idaho Power	\$20,000	\$0	\$2,200	Staff estimate.	Yes
Total Idaho Power Proposal			\$840,000	\$83,000	\$166,800		
Subtotal Staff Alternative			\$840,000	\$83,000	\$166,800		

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