

ENVIRONMENTAL OVERSIGHT AND MONITORING AGREEMENT

(Agreement in Principle)

Between the United States Department of Energy and the State of Idaho

1. This Agreement in Principle (Agreement) is voluntarily entered into by the United States Department of Energy (DOE), under the authority of 42 U.S.C. §7101 et. seq., and the State of Idaho (State) under the authority of Article IV, Section 5 of the Idaho Constitution and Idaho Code § 39-105. DOE's designated lead for purposes of this Agreement is the DOE's Idaho Operations Office (DOE-ID) and DOE's Naval Reactors Laboratory Field Office/Idaho Branch Office (NRLFO/IBO). The State's designated lead for purposes of this Agreement is the Department of Environmental Quality (DEQ). This Agreement replaces the Environmental Oversight and Monitoring Agreement between the DOE and the State executed on September 2, 2010; provided, however, that payments contemplated by #DE-EM000744 will continue as provided for until its expiration. Grant #DE-EM0003530 will replace #DE-EM000744 after its expiration.
2. This Agreement reflects the understanding and commitment between the State and the DOE, referred to as the Parties, for oversight and monitoring functions regarding the Idaho National Laboratory (INL) Site through core activities designed to produce comprehensive, current information for the Parties and the public. The DOE agrees to provide the State technical and financial support for State activities as described in this Agreement. The State agrees that the use of funds authorized by this Agreement shall be used only for services, personnel, and equipment that are directly related to Agreement activities. To the extent that personnel or services are used for

both Agreement and non-Agreement activities, the State shall allocate its costs and charge to the Agreement grant only that portion of the cost of the personnel or services that is used to support Agreement program activities.

3. To achieve the goals of this Agreement, the Parties agree as follows:

- a) Each has a responsibility to provide accurate information. In carrying out this Agreement, the Parties will fully cooperate and coordinate with each other and with other federal agencies and local and tribal governments affected by this Agreement. The Parties will keep each other informed of Memoranda of Understanding or Memoranda of Agreement that affect the Agreement and the expenditure of Agreement funds.
- b) Hazard and risk assessments form the basis for all emergency management planning activities. Consolidated planning, preparedness and training will enhance each Party's ability to participate in a coordinated emergency response among federal, state, local and tribal authorities for DOE fixed facilities in Idaho. To coordinate the planning process only, divisions currently in place to distinguish among on-site, off-site and transportation emergencies are removed. Emergency response and preparedness will be designed to achieve a fully coordinated local, state, federal and tribal emergency management and response capability for all DOE activities at the INL Site and non-DOE activities conducted in Idaho.
- c) To assure the DOE's activities are protective of the health and safety of Idahoans and the environment, the Parties agree to continue communication and coordination

efforts to address monitoring and related protocols that need to be attained or improved.

- d) The State will perform actions set forth in the annual Scope of Work which is incorporated by reference and made part of this Agreement. The intent of these State actions is to maintain an independent, impartial, and qualified oversight program within the DEQ, to assess the potential impacts of present and future DOE activities in Idaho; to assure the citizens of Idaho that all present and future DOE activities in Idaho are protective of the health and safety of Idahoans and the environment; and to communicate the findings to the citizens of Idaho in a manner which provides them the opportunity to evaluate potential impacts of present and future DOE activities in Idaho. The State will discuss the progress of actions with the DOE in periodic meetings.
- e) The DOE will provide an open review of INL Site-related activities and continue its commitment to responsible environmental management. The DOE will discuss the progress of actions with the State in periodic meetings.
- f) The DOE and State signatories to this Agreement shall each designate a coordinator within 30 days of signature of this Agreement, whose responsibilities include assuring implementation and coordination of the provisions of this Agreement. Unless otherwise provided, all correspondence, reports, documents or notifications required by this Agreement will be submitted to the coordinators.

g) The DOE will ensure that the State has access to all relevant information relating to the INL Site generated by or available to the DOE, including monitoring data relating to the INL Site. The DOE agrees to allow the State access to the facility hazard assessment process. In carrying out the provisions of this Agreement, the Parties will comply with the INL Site environment, safety and health requirements for activities on the site; security, classification, "need-to-know," and unclassified sensitive information laws and regulations; Privacy Act, Freedom of Information Act, and Idaho Public Records Act requirements to the extent applicable; trade secret, patent and related confidentiality requirements; or any other applicable laws, regulations and executive orders. The DOE will only provide the State with copies of documents, or sections of documents, marked as "Official Use Only," if the State determines those documents, or sections of documents, are exempt from disclosure under the Idaho Public Records Act. If the State determines those documents, or sections of documents are not exempt from the Idaho Public Records Act, the DOE will not provide copies of those documents, or sections of those documents, but will make them available for the State's review on the DOE's premises. The State has determined the INL Site facility hazards assessments are exempt from disclosure under the Idaho Public Records Act. This section is not intended to affect or impair the DOE's ability to review, on a case-by-case basis, whether information protected from disclosure should be re-evaluated for release to the State.

- h) This Agreement will in no way diminish or expand the Parties' authority to fully carry out their rights and responsibilities under applicable laws and regulations or other agreements, nor will it affect the Parties' ability or right to raise any defenses available under law in the event of any administrative or judicial action. Subject to applicable security, classification, and other confidentiality laws and regulations, nothing in this Agreement shall prohibit the Parties from using information developed under this Agreement to further their statutory duties, rights and obligations.
- i) The Parties to this Agreement further understand that the oversight activities authorized by this Agreement are intended to supplement activities conducted under applicable environmental laws and regulations, but not to support specific State regulatory, permitting, and legally required environmental oversight activities, such as issuance of regulatory permits, the review of the DOE regulatory submissions when such review serves primarily as the basis for State action under regulatory programs, required regulatory inspections, required monitoring, and issuance of regulatory notices of violations or other citations, nor to provide financial support to the Site Specific Advisory Board(s).
- j) Instead, the Agreement is intended to support the non-regulatory activities of the State in working with the DOE to evaluate the adequacy of DOE activities related to environmental monitoring and the potential for environmental or public health and safety impacts and to support periodic State monitoring of discharges,

emissions, or biological parameters as necessary to verify the effectiveness of the DOE programs. The Agreement recognizes the continued need for the State to have access to DOE facilities and to exchange relevant technical information with the DOE to support the State's environmental monitoring efforts and evaluation of potential public health or safety impacts. The parties to this Agreement understand that the Agreement does not represent an extension or enlargement of any regulatory authority that the State has under applicable laws.

- k) The DOE will provide the State resources for State actions to carry out the annual Scope of Work through grant mechanisms consistent with the DOE financial assistance rules, 10 CFR Part 600, Subpart H. All funds provided to the State under this Agreement are federal funds to be administered exclusively by the State. The DOE and the State will take all necessary steps and use their best efforts to obtain timely funding to meet their commitments under this Agreement. The Parties' obligation to conduct activities under this Agreement is subject to the availability of funds and technical resources. The DOE and the State will jointly review the level of funding on a year-to-year basis and will meet annually to mutually develop schedules for State activities under the grant in the upcoming year at the INL Site. The annual funding level assessment will be based on the DOE's budget for that year, the State's timely submittal of an annual proposed scope of work, and consideration of actual expenditures from the previous program year. However, the DOE funding obligations under this Agreement may be suspended or terminated by

the DOE, in whole or in part, in accordance with applicable federal assistance administration laws and regulations if the State is not in compliance with the terms and conditions of a grant. The DOE must provide the State ninety (90) days' prior written notice specifying any suspension of the terms or termination of a grant.

Unless the DOE and the State agree otherwise, or unless the suspension is for cause, no period of suspension shall last longer than ninety (90) days. Should the grant be suspended for cause, corrective action must be taken by the State before the DOE will end the suspension. Should new programs be developed at the INL Site which require additional State resources, the Parties may negotiate for additional funds.

No provision of this Agreement shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency Act, 31 U.S.C. § 341.

- l) The Parties recognize that the responsibilities, costs and obligations provided in the "Federal Facilities Agreement/Consent Order" are separate from this Agreement and will not be covered by this Agreement.
- m) To assist their efforts, the State and the DOE may develop procedures describing the steps to be taken for routine actions including, but not limited to, those described below:
 - ◆ interface with DOE contractors
 - ◆ requests for documents
 - ◆ management of documents
 - ◆ other procedures as specified by either Party.

Both Parties shall follow procedures as mutually approved by the designated coordinators. The designated coordinators may mutually agree to modify, amend or terminate these procedures.

4. Facilities and operations under the cognizance of the Naval Reactors Laboratory Field Office/Idaho Branch Office (NRLFO/IBO) are co-located at the INL Site. This Agreement provides for a non-regulatory interface between the State and the NRLFO/IBO. The liaisons for each party will be the Manager, Naval Reactors Laboratory Field Office/Idaho Branch Office, and the Director of the Idaho Department of Environmental Quality.


Emergency Planning and Preparedness for NRLFO/IBO activities, including those at the Naval Reactors Facility, are incorporated into the overall INL Site preparedness program so that coverage of this area is provided by the applicable provisions in this Agreement as implemented in coordination with DOE-ID.

Environmental surveillance for the NRLFO/IBO will be carried out consistent with current practices including any non-regulatory practices previously agreed as a matter of comity. Any changes in non-regulatory surveillance will be by mutual consent of the liaisons.

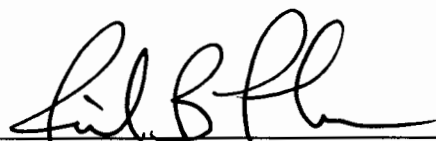
5. This Agreement is in effect through September 30, 2020, and may be extended as mutually agreed. This Agreement shall only be amended, modified or terminated by the written mutual agreement of both Parties. The DOE and the State will promptly commence discussions to modify this Agreement as appropriate to address any new federal, state or local issues that arise relating to conditions or activities at the INL Site that could affect public health, safety or the environment.

6. Grant # DE-EM0003530, is expected to provide approximately 1.4 million dollars per year for a 5-year period to support the commitments in this Agreement. This Agreement can serve as a conduit for more than one grant instrument from any number of DOE programs. However, the scope of work described in additional grants must fall within the goals of this Agreement. Each separate grant mechanism will provide funds to the State consistent with the DOE financial assistance rules identified in Paragraph 3(k) of this Agreement.

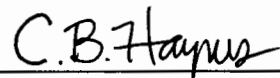
NOW, THEREFORE, the Parties sign this Agreement in consideration of the provisions set forth above and pledge their cooperation and good faith in achieving the purposes and goals of this Agreement.



JOHN H. TIPPETS, Director
Idaho Department of Environmental
Quality
Date: 8/31/15



RICHARD B. PROVENCHER
Manager for Idaho Operations Office
Date: 7/14/15



C.B. HAYNES, Manager
Naval Reactors Laboratory Field Office/
Idaho Branch Office
Date: 8/20/15

STATE OF IDAHO
AGREEMENT IN PRINCIPLE
INL ENVIRONMENTAL OVERSIGHT
And
MONITORING AGREEMENT
WORK PLAN
1-YEAR
(PROJECT PERIOD: OCTOBER 1, 2015 – SEPTEMBER 30, 2016)
RENEWAL APPLICATION
ADMINISTERED BY:
DEPARTMENT OF ENVIRONMENTAL QUALITY
INL OVERSIGHT PROGRAM

APRIL 2015

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EXPLANATION OF COSTS

Costs for the purpose of this DOE Grant Application are divided into six main categories. The main categories are divided into sub-categories. Costs in office sub-categories are best estimates on a per Full Time Equivalent (FTE) basis. Costs for technical supplies and services are based on either commercial rates or best estimates from accounting records.

Costs for leases, rentals, and contracts are based upon actual agreements. Those agreements exceeding \$10,000 are enacted via the State of Idaho open competitive bid process.

Cost estimates are projections based upon historical accounting information or information obtained from potential contractors.

STATE BUDGETARY DEFINITIONS

PERSONNEL COSTS:

Personnel costs include the salaries or wage expense of employees and officers whether full time, part-time, or irregular or seasonal help and also includes the employer's share of benefit contributions related to those employees and officers, such as retirement, health and life insurance, worker's compensation, employment security and Social Security. Salaries for filled positions are based upon the state position classification system. New hire or vacant position salaries are determined using mid-salary ranges for publicly announced positions. (Idaho Code, Section 67-3508 (a)).

TRAVEL COSTS:

Travel Costs have been estimated and itemized in a separate category from operating costs in the detailed breakdown budgets, but are considered a part of operating costs for state accounting purposes under Idaho Code.

CAPITAL OUTLAY/EQUIPMENT:

State definition for Capital Outlay/Equipment includes all costs for automobiles, machinery, apparatus, equipment and furniture, including additions thereto, which will have a useful life or services substantially more than two (2) years. (Idaho Code Section 67-3508 (c)). Department of Environmental Quality excludes minor equipment with a cost of less than \$500. However, for the purpose of prior approval of equipment, the Department will apply the federal definition of tangible, non-expendable, personal property having a useful life of more than one year and an acquisition cost of \$5,000 or more per unit. The Department will obtain written approval from DOE-ID prior to purchasing equipment when such equipment is \$5,000 or more per unit and with a useful life of more than one year.

OPERATING COSTS:

Operating costs include all expenses for services, travel, office rental, training, telephone service and use charges, consumable supplies (i.e., office supplies, subscriptions, etc.) and minor items of equipment that have an estimated life of less than two (2) years and are not included as capital outlay. (Idaho Code Section 67-3508 (b)).

CONTRACTUAL COSTS:

Contractual Costs include all costs associated with legal contracts between the Idaho Department of Environmental Quality and private contractors or consultants. Contractual Costs also extend to the use of Memorandum of Understandings (MOU's) or contractual Service Agreements between federal or other state departments for services. The Department Fiscal Procedures Manual is used as guidance to initiate contracts or MOU's.

INDIRECT COST RATES AND ALLOCATED COSTS:

Costs incurred for common or joint purposes benefiting more than one cost objective and not readily assigned to the cost objectives specifically benefited. These costs are allocated to benefiting cost objectives in accordance with the Department's federally approved cost allocation plan. Costs include such things as department accounting, personnel, payroll, management and other cost categories in accordance with OMB. Division and lower level organizational costs for these sub-categories are not included in this indirect cost rate and are identified within the operating cost subcategories on a FTE basis. Indirect costs are annually negotiated rates between the Department and the Environmental Protection Agency. Indirect costs are identified within individual organizational budgets and established as defined above. (OMB Circular A-87).

FINAL NOTE: All costs are best estimates based upon the assumption that all FTE's will be filled, historically projected costs, anticipated State Fiscal Year activities using current available cost data, current contracts and Memorandum of Understandings, and the negotiated benefits and indirect cost rates for use on grants, contracts and other agreements with the Federal Government September 12, 1990,G32012(OMBCircularA-87).

PROJECTED ANNUAL COSTS

BUDGET PERIOD	FY 2016
PERSONNEL FTE's	9.1
INTERN FTEs	.20
BUDGET CATEGORY	
PERSONNEL SALARY	\$475,286
INTERN SALARY	\$5,408
PERSONNEL BENEFITS @ 45%	\$213,879
INTERN BENEFITS @ 10%	\$541
TRAVEL	\$14,130
OPERATING	\$106,338
EQUIPMENT	\$16,000
CONTRACTUAL	\$ 324,476
DIRECT COST	\$1,170,479
INDIRECT	\$228,967
32.27% of Salary + Benefits	
TOTAL	\$1,399,445

FULL TIME EQUIVALENTS (FTE's) TIME EQUIVALENTS (FTE's) BY LOCATION

INL OVERSIGHT PERSONNEL:

9.30 FTE

1.00 FTE Analyst 5

1.00 FTE Administrative Assistant 1 (to keep consistent with the detailed budget)

1.00 FTE Community Outreach Specialist

3.00 FTE Health Physicist

2.25 FTE Environmental Scientist (Scientist 3 & 4)

0.85 FTE IT Systems Analyst

0.20 Intern

**IDENTIFICATION OF PRIMARY WORK OBJECTIVES
AND
ASSOCIATED COSTS**

MANAGEMENT AND ADMINISTRATION SUPPORT

GENERAL PROGRAM MANAGEMENT AND ADMINISTRATIVE OBJECTIVES

- A. Provide programmatic and financial management and administrative support for coordinated, comprehensive state oversight of INL activities.
- B. Assist the State of Idaho, Department of Environmental Quality, INL Oversight Coordinator, INL Oversight Program Manager, public information coordinator, and technical positions by providing management, technical/professional training, oversight, and support of appropriate monitoring activities to be undertaken by the State as follows:
 - 1. Coordinate participation in development and execution of work plans, monitoring and coordinating the timely collection of data and publishing the reviews of environmental monitoring and risk assessment data.
 - 2. Consult and coordinate with DOE-ID.
- C. Submit, coordinate, and monitor DEQ agency requests for DOE security clearance applications and periodic security and OSHA initial/refresher training for DEQ representatives requiring INL facility access.
- D. Complete the development and ensure coordination with DOE for State compliance with procedures for DEQ personnel access to the DOE-ID and INL facilities.
- E. Maintain the INL Oversight Program records management system and ensure State procedures for worker access to and/or storage of DOE classified information are followed.
- F. Prepare, coordinate, and monitor annual or supplementary DOE-AIP, State Environmental Oversight and Monitoring Agreement grant budgets. Assist in negotiating yearly scope and funding levels. Maintain and monitor State compliance with all grant requirements.
- G. Coordinate, monitor, and review INL related periodic updates to DEQ personnel related State worker health and safety programs, to include coordination of safety training, identification of acceptable training programs, medical evaluations, radiation dosimetry programs, and any required personnel monitoring programs as required by the DEQ Worker Health and Safety program.
- H. Assist, coordinate, review, audit field project safety plans for State representatives involved in oversight and monitoring activities at the INL.
- I. Attend or designate staff to attend meetings, audits, inspections, and INL Site visits related to INL activities convened for or initiated by:
 - 1. The INL Citizens Advisory Board (INL-CAB)
 - 2. The Environmental Protection Agency (EPA)
 - 3. The Nuclear Regulatory Commission (NRC)
 - 4. The Defense Nuclear Facilities Safety Board (DNFSB)
 - 5. The National Academies of Science (NAS)
 - 6. Other agencies of interest

DATA MANAGEMENT SYSTEM & SOFTWARE SUPPORT OBJECTIVES

- A. Provide IT and database management evaluation, assistance, and maintenance.
- B. Provide Website software support for the program and emergency response webs.
- C. Identify and recommend any additional system needs as required to allow efficient State utilization of data and to ensure the INL Oversight Program/Idaho State University Environmental Monitoring Laboratory (EML) environmental data management system interfaces with DOE Idaho Operations Office environmental data management system for INL related data.
- D. Input data and assist project workers in their use of the INL Oversight Program environmental database.

MANAGEMENT AND ADMINISTRATION SUPPORT

PROPOSED ANNUAL COSTS

BUDGET PERIOD	FY 2016
FTE's	1.96
BUDGET CATEGORY	
SALARY	\$97,976
3% CEC INCREASE	\$2,939
BENEFITS @ 45%	\$44,089
TRAVEL	\$3,160
OPERATING	\$12,018
EQUIPMENT	\$0
CONTRACTUAL	\$0
TOTAL	\$160,182

PUBLIC INVOLVEMENT and OUTREACH

PUBLIC INVOLVEMENT AND OUTREACH OBJECTIVES

- A. Provide public information services that will:
1. Assist in the collection and dissemination of public information related to INL activities of public interest.
 2. Provide information to concerned citizens and local and tribal governments.
 3. Assist with preparation of independent, factual reports required by the Agreement and the Idaho legislature.
 4. Maintain toll-free telephone line to answer questions and respond to concerns of the public.
 5. Plan, coordinate, organize, conduct, and/or participate in public involvement and outreach activities at various locations within the State and attend outside agency meetings concerning INL environmental projects or reviews. In the proposal for year 1 of this agreement, participation at the Twin Falls Fair is included.
 6. Publish periodic fact sheets, technical and other reports and share this information with DOE-ID.
 7. Maintain a public information website.
 8. Coordinate with DOE public information office on INL issues of public concern.
 9. Assist the technical staff in plan, organizing, and preparing professional technical public meetings or conferences.
 10. Actively promote interest in sciences and an understanding of INL related topics among students within the state.
 11. Participate in training and public information support efforts in preparation to INL emergencies.

PUBLIC INFORMATION
PROPOSED ANNUAL COSTS

BUDGET PERIOD	FY 2016
FTE's	1.00
BUDGET CATEGORY	
SALARY	\$45,074
3% CEC INCREASE	\$1,352
BENEFITS @ 45 %	\$20,283
TRAVEL	\$7,500
OPERATING	\$12,815
EQUIPMENT	\$0
CONTRACTUAL	\$0
TOTAL	\$87,025

STATE/DOE/LOCAL EMERGENCY RESPONSE

STATE/DOE/LOCAL EMERGENCY RESPONSE OBJECTIVES

- A. Develop, exercise, and refine INL Oversight Program technical roles to advise and assist State/DOE/local Radiological Emergency Response via State/DOE integrated, real-time radiation detection, meteorological, field response communications capability; a coordinated site incident response capability; and a State/Local emergency response preparation capability.
- B. Assist in development, update and maintenance of Idaho Emergency Operations plans to include the Nuclear/Radiological Incident Annex, Idaho INL Fixed Nuclear Facility Plan, and Idaho Hazardous Materials Incident Command and Response Support Plan. Provide technical assistance to local governments upon request for assistance in updating and maintaining their emergency response plans and capabilities as they apply to emergencies at the INL with an offsite impact.
- C. Assist in the coordination between State and DOE on preparation/exercise of emergency response plans.
- D. Participate in scheduled INL drills/exercises that involve state participation.
- E. Assist State/DOE joint training for local governments that could be affected by an emergency at the INL.
- F. Maintain an emergency response information and public information capability as it relates to INL offsite radiological emergencies.
- G. Participate in federal/state/local radiological emergency technical working group meetings.
- H. Maintain applicable modeling capability for plume and dose projection.
- I. Maintain a 24-hour emergency on-call capability in the event of INL radiological incident.

EMERGENCY PLANNING AND PREPAREDNESS

PROPOSED ANNUAL COSTS

BUDGET PERIOD	FY 2016
FTE's	1.38
BUDGET CATEGORY	
SALARY	\$81,402
3% CEC INCREASE	\$2,442
BENEFITS @ 45 %	\$36,631
TRAVEL	\$870
OPERATING	\$10,404
EQUIPMENT	\$0
CONTRACTUAL	\$0
TOTAL	\$131,749

ENVIRONMENTAL SURVEILLANCE

ENVIRONMENTAL SURVEILLANCE OBJECTIVES

- A. Collect and analyze air, water, soil, milk, and other environmental samples both on and off-site to identify and/or verify any environmental health impacts on and near the INL due to past or current operations. Monitoring results will be shared with DOE-ID.

Proposed Sample Collection @ Community Monitoring Stations

	Annual
Particulate	684
Radioiodine	572
Atmospheric Moisture	132
Electret Ion	372
Precipitation	48
Total	1808

Proposed Sample Analyses – Idaho State University Environmental Monitoring Laboratory

	Annual
Gross Alpha & Beta	1,368
Gamma Spectroscopic - Particulate	684
Radioiodine	572
Liquid Scintillation - Atmospheric Moisture for Tritium	132
Liquid Scintillation - Precipitation for Tritium	48
Gamma Spectroscopic - Precipitation	48
Total	2,852

Measurements/Analysis performed by INL Oversight Program

	Estimated Annual
HPIC - # Locations 10 Permanent 4 Remote/Solar	14
Electron Ion	414
In-Situ Gamma Spectrometry	60

TERRESTRIAL MONITORING – SOILS and MILK

Soil Samples

	Estimated Annual
Routine	15

In-Situ Soil Measurements

	Estimated Annual
Routine	50
QA	10
Total	60

Milk Samples

	Total
Routine	72
Verification	24
Total	96

* Collected monthly at Rexburg, Fort Hall, Mud Lake, and Gooding.

* Analysis @ ISU Environmental Monitoring Laboratory

WATER QUALITY MONITORING

Water samples collected

	Estimated Annual
Surveillance	771

Water samples analyzed by State Laboratory – Non-Radiological

	Estimated Annual
Surveillance	364

Water samples analyzed by ISU EML - Radiological

	Estimated Annual
Surveillance	407

- B. Perform environmental surveillance activities identified through the INL Oversight Program.
- C. Participate in the INL Monitoring and Surveillance Committee (MSC).
- D. Provide primary direction and support for the community monitoring stations in cooperation with the U.S. Department of Energy, NOAA, and the Shoshone-Bannock Tribe.

QUALITY ASSURANCE/QUALITY CONTROL OBJECTIVES

- A. Administer and coordinate the review and assessment of all Quality Assurance/Quality Control (QA/QC) project proposals for state INL monitoring.
- B. Assist in the identification, coordination, and recommendations of any modifications or improvements that may be needed to the QA/QC programs and chain of custody procedures.
- C. Review INL QA/QC environmental monitoring programs.

ENVIRONMENTAL MONITORING SYSTEMS REVIEW OBJECTIVES

- A. The INL Oversight Program technical staff will review the INL Environmental Monitoring and Surveillance and will identify any modifications or improvements.
- B. Review and evaluate monitoring protocol, system design, construction, operation and maintenance of environmental monitoring systems for on-site discharges and emissions, water quality, air quality and off-site radioactivity.
- C. Evaluate past, current, and future sampling methodology, locations, frequency, procedures, and parameters; review and assess data collection, validation and management systems; and review and assess reporting methods.
- D. Review and comment on the INL monitoring programs/plans and related dose models.
- E. Obtain technical literature from DOE and other sources.
- F. Review and comment as required on historical site data and narrative information.

ENVIRONMENTAL SURVEILLANCE

PROPOSED ANNUAL COSTS

BUDGET PERIOD	FY 2016
PERSONNEL FTE's	4.76
INTERN FTE's	.20
BUDGET CATEGORY	
PERSONNEL SALARY	\$250,834
INTERN SALARY	\$5,408
3% CEC INCREASE	\$7,282
3% CEC INCREASE INTERN	\$162
BENEFITS @ 45%	\$112,875
INTERN BENEFITS @10%	\$541
TRAVEL	\$2,600
OPERATING	\$71,101
EQUIPMENT	\$16,000
CONTRACTUAL**	\$324,476
TOTAL	\$791,522

**NOTE: See following Idaho State University and Quality Assurance projected annual cost breakdown below.

**IDAHO STATE UNIVERSITY
ENVIRONMENTAL LABORATORY SERVICES**

I. PERSONNEL:				
POSITION TITLE	HOURLY RATE	HRS	BASE SALARY	TOTALS
FACULTY STAFF				
Professor	\$84.00	368	\$125,328	\$30,912
Senior Laboratory Scientist	\$35.54	2080	\$73,924	\$73,924
Laboratory Scientist	\$11.95	2080	\$24,852	\$24,852
STUDENTS				
1 Graduate Student 1st year	\$15.00	1050	\$15,750	\$15,750
1 Undergraduate Students	\$11.00	725	\$7,975	\$7,975
			TOTAL SALARY	\$181,738
Faculty Staff fringe benefits @ 21% salary			Benefits	\$28,469
Faculty Health Insurance @ \$4.52/hour				\$1,980
Senior Laboratory Supervisor (Health Insurance)				\$9,405
Laboratory Scientist (Health Insurance)				\$9,405
Student Fringe				\$2,112
			TOTAL BENEFITS	\$53,369
TOTAL PERSONNEL (Total Salary + Fringe Benefits)			ITEM I	\$235,107
II. TRAVEL				
A) IN-STATE:				
Pocatello to IF on various visits with INL Oversight staff				\$1,000
TOTAL TRAVEL			ITEM II	\$1,000
III. OPERATING EXPENSES				
Instrument maintenance and software upgrades				\$5,000
Field/Lab Supplies				\$5,000
Laboratory Instrument standards				\$2500
Vendor Laboratory Analysis (Analysis not performed @ ISU EML)				\$10,000
TOTAL OPERATING EXPENSES			ITEM III	\$22,500
IV. EQUIPMENT & RELATED COSTS				
Lab/field equipment parts/replacement/upgrade costs				\$2,530

TOTAL EQUIPMENT COSTS	ITEM IV	\$2,530
V. OTHER DIRECT COSTS		
Graduate Student Tuition (AY)		\$9,630
SUBTOTAL DIRECT COSTS		\$270,766
INDIRECT @ 20% TDC		\$54,153
TOTAL COST		\$300,476

Quality Assurance Support

Contract to provide quality assurance review and support including laboratory audits:

Estimated Cost is \$24,000. Moving these expenses into a contract will provide a reduction in any perceived conflict of interest and save allocated costs for an independent audit.