

PNNL ALARA Committee Charter

Purpose

The PNNL ALARA Committee provides oversight of PNNL's R&D and facilities related activities to ensure that radiological dose to workers and the public are minimized taking into account social, technical, economic, practical, and public policy considerations. The committee establishes expectations for the integration of ALARA processes into radiological control activities and establishes and monitors PNNL radiological dose and work staff contamination performance goals.

Membership

The PNNL ALARA Committee consists of an ALARA Chairperson, an ALARA Coordinator, the Health and Safety Manager or delegate and representatives from each laboratory division having an annual collective dose greater than 1000 person-mrem.

Committee Meetings

ALARA committee review meetings are convened when required by an infrequent or first-time activity, when requested by the ALARA Chairperson, line management, the cognizant Radiological Engineer, or an ALARA committee member or at least semiannually.

A quorum shall consist of the ALARA Chairperson (or alternate) and any additional three members, not to exceed one alternate for the three.

ALARA Committee Responsibilities

- Review and approve work plans requiring an ALARA committee review. Ensure that:
 - Work plans adequately identify and mitigate radiological dose and contamination hazards, include contingency plans for radiological emergencies, and are thoroughly reviewed by the owners of the planning and review process .
 - Ownership of the planning and review process is clearly established for the work.
 - Personnel performing the work have the necessary training and experience.
 - Management oversight and supervision of the work is adequate.
- Provide support for laboratory wide ALARA and radiological control improvement initiatives especially in the area of contamination control.
- Develop and approve goals and performance indicators that measure the progress and effectiveness of radiological control and the ALARA process. Review progress periodically.
- Provide PNNL management with recommendations for improvements in ALARA and radiological control based on the following sources:
 - ALARA Self Assessments
 - Internal Radiological Control Assessments
 - 10 CFR 835 potential noncompliances
 - ALARA Performance Indicators
 - DOE Assessments
 - Annual ALARA Report

Committee Chairperson

The primary function of the PNNL ALARA Chairperson is to provide leadership to improve radiological ALARA performance.

Communicate clear expectations for ALARA performance.

Convene the Committee on a regular frequency. Minutes should include issues and topics discussed.

ALARA Coordinator

Develop and maintain communications on ALARA issues and information.

Record Facility ALARA Committee meeting minutes.

Track and report status of ALARA performance indicators.

Publish annual ALARA report.

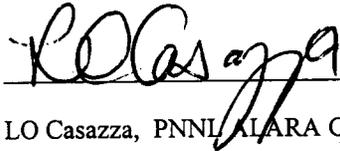
Committee Members

Represent their facility or organization on the committee with full decision-making authority.

Ensure implementation of Committee decisions (including laboratory goals).

Communicate Committee decisions and expectations to their facility or organization's management.

Approved

A handwritten signature in black ink, appearing to read "LO Casazza", is written over a horizontal line.

LO Casazza, PNNL ALARA Committee Chairperson

Blank Approval Form: Prep and Risk Approval Form	No:	Project Title:	Project Manager:	Last Saved Date:
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-	-	-	<p>1: Are you entering this project to test the Prep & Risk system, using it as a template, or using it for your own personal training of the Prep & Risk system? (If this is a real project, select 'No'). <i>Project Status: Unassigned</i> Comment:</p>
		-	<p>2: What is the new project title? Comment:</p>
		-	<p>The Project Number is: Comment:</p>
		-	<p>3: What is the Scope Statement? Comment:</p>
		-	<p>Note: Any change to an existing scope statement will require that scope clearance review be reinitiated.</p>
-	-	-	<p>4: Will this project be funded by multiple clients (Multi-funded project) and/or require the use of separate project numbers for cost accumulation and billing purposes? Comment:</p>
		-	<p>5: Who is the Project Manager? PM ID (user id) Project Manager Name : Project Manager Organization Code : Project Manager Phone Number : Project Manager Facsimile Number : Comment:</p>
		-	<p>6: Select the applicable category for this project: <input type="checkbox"/> 1830 DOE Direct (FIN plan - FWPs, TTPs or ADSs) <input type="checkbox"/> 1830 Other Hanford Contractor (OHC) <input type="checkbox"/> 1830 Related Services <input type="checkbox"/> 1831 Government <input type="checkbox"/> 1831 Industrial <input type="checkbox"/> Laboratory Directed Research and Development (LDRD) <input type="checkbox"/> Battelle Administrative Account</p>

	<p> <input type="checkbox"/> Internal Research and Development (IR&D) <input type="checkbox"/> InterGovernmental Personnel Act Assignments (IPA) <input type="checkbox"/> Cooperative Research and Development Agreement (CRADA) <input type="checkbox"/> 1830 Capital <input type="checkbox"/> 1831 Capital <input type="checkbox"/> Commercialization Research and Development <i>Actual Category: Unassigned</i> Comment: </p>
	<p> 7: Choose the Lead Product Line. List up to 4 additional Product Lines and their percentage of the Sales Allocation. Lead PL: - Secondary PL: -- Secondary PL: -- Secondary PL: -- Secondary PL: -- Comment: </p>
	<p> 8a: Include up to five people who will be able to edit this form, in addition to the Project Manager, the Product Line Manager, reviewers, scope coordinator, and division ECR. Use the find person button to select a user id, or enter a user id. NOTE: The name will be filled in automatically on save. First Delegate ID (user id) Title: Second Delegate ID (user id) Second: Third Delegate ID (user id) Title: Fourth Delegate ID (user id) Title: Fifth Delegate ID (user id) Title: Comment: </p>
	<p> 8b: This question is automatically filled in by the system. If you have chosen a Product Line that has additional delegates associated with it, the names of the delegates will be populated below. Do not change the fields below. Any changes you make may be overwritten by the product line at any time. First PL Delegate ID (user id) Title: Second PL Delegate ID (user id) Title: Third PL Delegate ID (user id) Title: Fourth PL Delegate ID (user id) Title: Fifth PL Delegate ID (user id) Title: </p>

	<p>Comment:</p>
	<p>9a: Include up to six people who will review and sign this form, in addition to the Project Manager and the Product Line Manager. Use the find person button to select a user id, or enter a user id. NOTE: The name will be filled in automatically on save.</p> <p>First Signing ID (user id) Title: Second Signing ID (user id) Title: Third Signing ID (user id) Title: Fourth Signing ID (user id) Title: Fifth Signing ID (user id) Title: Sixth Signing ID (user id) Title: Comment:</p>
	<p>9b: This question is automatically filled in by the system. If you have chosen a Product Line that has additional signers associated with it, the signers will be populated below upon changing the Lead Product Line. Please enter a user ID for PL signers given only by title (e.g. Immediate Manager). Do not change or erase the user ID's below unless you are one of the designated signers.</p> <p>First PL Signing ID (user id) Title: Second Signing ID (user id) Title: Third Signing ID (user id) Title: Fourth Signing ID (user id) Title: Comment:</p>
	<p>9c: Which notification order will be used in routing this project for signatures? <input type="checkbox"/> Project Manager, all signers listed above, Product Line Manager <input type="checkbox"/> Project Manager, 1st signer listed above, 2nd signer, etc., Product Line Manager Note: When ready to start the automatic notification process, press the INITIATE SIGNATURE ROUTING button at the bottom of this form. Comment:</p>
	<p>10: What is the estimated Project Start Date? (please use MM/DD/YYYY format) <i>Actual Project Start Date:</i> Comment:</p>

			<p>11: What is the estimated Project End Date? (please use MM/DD/YYYY format) <i>Actual Project End Date:</i> Comment:</p>
			<p>12: (1830 DOE Direct ONLY) What is the estimated dollar amount of the proposal? Current: - Current FY: \$ Next: Next FY: \$ Budget: Budget FY: \$ Comment:</p>
			<p>13: (All projects except 1830 DOE Direct) What is the estimated dollar amount of the proposal? Comment:</p>
			<p>14: Who is the DOE or Client Technical Representative? Name: Phone: FAX: Comment:</p>
			<p>15: Specify the OHC Work Order Number Comment:</p>
		-	<p>16: Select how the OHC Work Order will be set up: <input type="checkbox"/> Project <input type="checkbox"/> Generic Project Comment:</p>
			<p>17: What is the Budget and Reporting (B&R) Number for this project? Comment:</p>
-	-	-	<p>18: Is this work in response to a Request for Proposals? If Yes, enter the RFP Number Comment:</p>
		-	<p>19: Select the applicable contract type for this project: <input type="checkbox"/> Cost Plus Fixed Fee</p>

	<input type="checkbox"/> Grant <input type="checkbox"/> Cost Sharing <input type="checkbox"/> Labor Hour/Time & Materials <input type="checkbox"/> Fixed Price <input type="checkbox"/> Interlaboratory Agreement (ILA) <input type="checkbox"/> Cooperative Research and Development Agreement (CRADA) <input type="checkbox"/> Other (specify in comments to this question) <i>Actual Contract Type: Unassigned</i> Comment:
	20: Who is the anticipated Contract Client? Name: <i>Actual Client Name: Unassigned</i> Address: City: State: Country: Zip Code: Contact Person: Phone: FAX: Comment:
	21: Will the Funding Client be different from the Contract Client? Comment:
	22: Who is the anticipated Funding Client? Name: <i>Actual Funding Client Name: Unassigned</i> Address: City: State: Country: Zip Code: Contact Person: Phone: FAX: Comment:
	23: Will the project be involved in any of the following research areas? Battelle qualifies for tax credits from the State of Washington for research and development conducted in these areas. If Yes, please select the one research area that most applies (i.e., would be easiest to justify, if challenged): <input type="checkbox"/> Advanced Computing <input type="checkbox"/> Advanced Materials

	<input type="checkbox"/> Biotechnology <input type="checkbox"/> Electronic Device Technology <input type="checkbox"/> Environmental Technology <input type="checkbox"/> None Apply Comment:
	<p>24: Proposed Work Location(s): List up to 5 locations where the work will be performed in the boxes below. You must list at least one primary work location. List all locations. If more than five, please provide additional information in the comments section.</p> <p>Primary Location Facility: - Other: City: State: - Other: Country: -</p> <p>2nd Location Facility: - Other: City: State: - Other: Country: -</p> <p>3rd Location Facility: - Other: City: State: - Other: Country: -</p> <p>4th Location Facility: - Other: City: State: - Other: Country: -</p> <p>5th Location Facility: - Other: City: State: - Other: Country: -</p> <p>Comment:</p>
	<p>25: Does the project FALL OUTSIDE OF the current operational boundaries established in the <u>Facility Use Agreement</u> for the work location?</p> <p>Comment:</p>
	<p>26: Will this project create or use <u>Intellectual Property</u>? If Yes, check all that apply:</p> <p><input type="checkbox"/> This project could use or modify an invention, device, process, new material, prototype or internally-developed software product. If checked, specify the IP, by Invention Report, patent, software product name or TID# in the following text box:</p> <p><input type="checkbox"/> This project could create new invention, device, process, new material, prototype, software product or other Intellectual Property (IP). If checked, describe in the following text box:</p> <p><input type="checkbox"/> This project could involve IP owned by a third party or a party to the transaction? If checked, please describe in the following text box:</p> <p><input type="checkbox"/> This project involves Intellectual Property for which a patent has been issued or applied for, or a software copyright has been granted. If checked, identify the Intellectual Property in</p>

			<p>the following text box:</p> <p><input type="checkbox"/> This project could involve IP committed under license, option or CRADA. If checked, provide description of IP and specify other transaction in the following text box:</p> <p><input type="checkbox"/> This project will use information or data from a previous or existing DOE (1830) project that hasn't been reported to DOE. If checked, describe in the following text box:</p> <p>Comment:</p>
-	-	-	<p>27: Does the project contain research activities similar to past, present or currently planned projects that could present a potential conflict of interest or is there an Organizational Conflict of Interest (OCI or COI) requirement? If there is an OCI or COI requirement, contact the <u>Contracting Officer</u> or <u>Legal Counsel</u>, and provide a copy to the <u>Scope Office</u> (fax 614-424-7857). NOTE: Scopes will not be cleared without a copy of the OCI or COI requirement.</p> <p>Comment:</p>
-	-	-	<p>28: Is there a Limitation of Future Contracting (LOFC) clause or other non-competition requirement in the RFP or proposed contract provisions? If YES, the agreement of all Market Sectors must be obtained before proposal initiation. Contact the <u>Contracting Officer</u> or <u>Legal Counsel</u>. Also, if yes, provide a copy of the LOFC or non-competition requirement to the <u>Scope Office</u> (fax 614-424-7857). NOTE: Scopes will not be cleared without a copy of the LOFC or non-competition requirement.</p> <p>Comment:</p>
-	-	-	<p>29: Is a teaming agreement needed?</p> <p>List all team members:</p> <p>Comment:</p>
-	-	-	<p>30: Will staff members, contractors, or consultants be involved in gathering or using competitive information? If any of the following conditions are checked "yes," provide a brief description in the comment box for the question and contact the <u>Legal Department</u>.</p> <p><input type="checkbox"/> Access to competitive information by foreign nationals will be sought or obtained.</p> <p><input type="checkbox"/> Freedom of Information Act information will be requested for a non-U.S. Government client</p> <p><input type="checkbox"/> Competitive information will be sought or obtained that may be considered business sensitive or proprietary.</p> <p><input type="checkbox"/> Contractor bid or proposal information from a U.S. Government procurement will be sought or obtained.</p> <p><input type="checkbox"/> Competitive information that has the potential to create a conflict of interest for Battelle in its relationship with any of its clients will be collected.</p> <p>Comment:</p>

-	-	-	<p>31: Is the project related to, or will it have a potential impact on, a prior, current, or planned DOE program? Comment:</p>
-	-	-	<p>32: Is the proposed work in support of activities for utilities or industries regulated by the U.S. Nuclear Regulatory Commission? Comment:</p>
-	-	-	<p>33: Is the proposed work funded by the Department of Energy in support of the commercial nuclear industry? Comment:</p>
-	-	-	<p>34: Will the project require a non-disclosure agreement? Comment:</p>
-	-	-	<p>35: Could the required project deliverables create a future liability for Battelle? If Yes, check all that apply:</p> <p><input type="checkbox"/> Will the deliverables be used by the client to make major business or investment decisions? <input type="checkbox"/> Do the deliverables include the development of products for use in aircraft, spacecraft, or missiles? <input type="checkbox"/> Are the deliverables experimental in nature? <input type="checkbox"/> Will the deliverables be given to the client prior to being <u>reduced to practice</u>? <input type="checkbox"/> Will the deliverables be used by the client to make, use or sell commercial products? Comment:</p>
-	-	-	<p>36: Are you producing a hardware or software product, or report, (e.g. shipping cask, equipment, facility design, fabrication or safety analysis report [SAR]) that will impact the safe operation of a radiological or nuclear facility, or the protection of that facility's staff from radiological hazards?</p> <p><input type="checkbox"/> Is the product or report deployed in a DOE owned nuclear facility? <input type="checkbox"/> Is the product or report deployed in a commercial nuclear facility? Comment:</p>
-	-	-	<p>37: Will the project include situations where the client will be directing the execution of the project to a degree that will impact Battelle's ability to remain objective? Comment:</p>

38: Will the project include any of the following client-furnished materials? If Yes, check all that apply and provide a brief description in the Comment section:

- hazardous materials
 items of great intrinsic value
 novel devices
 equipment
 samples (See the Sample Handling, Archival, and Disposal subject area)

Comment:

39: Will the project involve work with a foreign client and/or work in a foreign country other than incidental participation in an overseas technical conference or workshop? If yes, the following should be considered for appropriate risk management/mitigation. For more information, click on the corresponding "?."

Project Negotiation & Management: Foreign projects involve additional project scoping efforts, unique financial arrangements, special contracting requirements, and enhanced project management and integration-all potentially impacting project cost, schedule, and performance.

Finance/Taxation/Cash Flow: International business transactions take place in an arena of many different monetary systems and currencies. An understanding of the exchange control system and how it applies to the overall project is required. In addition, foreign projects can obligate or put Battelle and staff in a situation of owing taxes. Taxation (e.g., value added, profit, technology) and currency exchange rates can pose considerable risk to the project and the company, having far-reaching implications on management and profitability.

Employment: If the project requires the employment of a PNNL staff member in a foreign location or a foreign national in a PNNL location, a variety of issues impacting cost and schedule must be addressed. They include: DOE requirements, housing, taxation, reassignment/repatriation, and foreign restrictions.

Health & Security: Foreign health and security risks are prevalent, depending on the country. They can range from medical emergencies, political upheavals, and natural disasters to acts of terrorism. Exposure to such risks impacts the ability to enlist PNNL staff, the well-being of our staff abroad, and the cost of doing business.

Culture & Ideology: Cultural awareness is critical to a successful international venture. It affects all aspects of doing business, from the initial contact to project implementation. A gesture that means "O.K." in San Francisco could sabotage a deal in Sao Paulo. All involved staff should receive appropriate training.

In-country Legal Issues: The legalities of business and conduct are not universal - in some countries it is illegal to perform acts that are legal in the U.S. and vice versa. Business laws and requirements, export regulation, intellectual property protection, bribery/extortion, agency requirements are all examples of factors that can impact corporate liability, employee legal status, and project cost and schedule.

Foreign Bureaucracies: In the international arena, projects will encounter a wide variety of bureaucratic cultures, each presenting a potential challenge to conducting business. All bureaucratic organizations that are necessary for the success of the project, both in the U.S. and in the country of interest, need to be identified.

Comment:

40: Will the project use Other Hanford Contractor (OHC) services or facilities?

Comment:

			<p>41: If the work is non-1830, will the project involve the onsite or offsite use of 1830 equipment? Comment:</p>
			<p>42: PNNL's QA Program is based on DOE Order 414.1 and 10CFR830.120 and implemented through SBMS. Do you have project or customer specific QA requirements that are to be implemented? If yes, check all that apply:</p> <p><input type="checkbox"/> 10CFR830.120 Quality Rule (Price Anderson Amendment Act) <input type="checkbox"/> NQA-1 (Nuclear Quality Assurance) <input type="checkbox"/> ISO-9000 (International Organization for Standardization - Quality Management and Quality Assurance) <input type="checkbox"/> (Software) Capability Maturity Model assessment level <input type="checkbox"/> EPA E-4; EPA QA/R-2; EPA QA/R-5</p> <ul style="list-style-type: none"> • EPA E-4 (American National Standard - Specification and Guidelines for Quality Systems for Environmental Data Collections and Environmental Technology Programs); • EPA QA/R-2, ("EPA Requirements for Quality Management Plans" (replaces QAMS/004-80)); • EPA QA/R-5, ("EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations" (replaces QAMS/005-80)) <p><input type="checkbox"/> DOE HASQARD (DOE/RL-96-68) Hanford Analytical Services Quality Assurance Requirements Document <input type="checkbox"/> FDA GLP 21CFR 58 Food and Drug Administration Good Laboratory Practice <input type="checkbox"/> Certificate of Conformance is a deliverable <input type="checkbox"/> Quality Assurance Plan is a deliverable <input type="checkbox"/> Client driven calibration requirements <input type="checkbox"/> Client specified quality standard <input type="checkbox"/> other (please specify in the comment for this question) Comment:</p>
			<p>43: Does this project have unique or unusual cost and schedule reporting requirements? Comment:</p>
			<p>44: Will the project involve materials, processes, data or topics of high public awareness that have the potential to harm Battelle's image or result in activist group activities directed against the project, staff or Battelle? Examples include research involving:</p> <ul style="list-style-type: none"> • animals, • human health effects of certain products or processes, • data used in litigation, • weapons development or enhancement <p>Comment:</p>

<p>- - -</p>	<p>45: Will the proposed work scope require any individuals (i.e., Battelle staff, non-staff, subcontractors, and/or consultants) to generate, access, discuss, process, receive, transmit, or store any classified information (documents and/or material)? If YES, check all that apply:</p> <p><input type="checkbox"/> The proposed work scope requires access to classified reference(s) and the generation of classified and/or unclassified document(s).</p> <p><input type="checkbox"/> The proposed work scope will, or may potentially, require new construction, upgrades, or modifications to security protection/access controls owned, or under control of PNNL, for classified activities.</p> <p><input type="checkbox"/> The proposed work scope requires individuals (i.e., Battelle staff, non-staff, subcontractors, and/or consultants) to possess DOE or other agency security clearances; and/or to access to classified matter (both possessing and non-possessing facilities).</p> <p><input type="checkbox"/> The proposed work scope requires the utilization of classified information systems; classified conference rooms, classified fax/Secure Telephone Units STU-III); approved containers for storage of classified matter; and/or classified copiers which are owned, or under control of, PNNL.</p> <p>Comment:</p>
<p>- - -</p>	<p>46: Will the proposed work scope require safeguards and security controls or incur risk because of safeguards and security considerations? If yes, check all that apply:</p> <p><input type="checkbox"/> The proposed work scope requires individuals to handle, come in contact with, generate, discuss, transmit, destroy, or store sensitive unclassified information, or other matter for which disclosure, loss, misuse, alteration, or destruction could adversely affect national security, governmental interests, and/or Battelle/client business interests.</p> <p><input type="checkbox"/> The proposed work scope involves utilization or storage of assets, which would require medium or high-level asset protection. These assets include but are not limited to: controlled substances; precious metals; portable property over \$500K; nuclear and non-nuclear weapons components.</p> <p><input type="checkbox"/> The proposed work scope will require subcontractors or consultants to possess nuclear and other hazardous materials presenting a potential radiological or toxicological sabotage threat, and/or DOE property with a value of \$5M or more.</p> <p><input type="checkbox"/> Any aspects of this proposed work scope involve participation or utilization of foreign nationals (i.e. non-U.S. citizens).</p> <p><input type="checkbox"/> The proposed work scope will use, within owned or operated PNNL facilities, <u>nuclear material of concern to Safeguards</u>.</p> <p><input type="checkbox"/> The proposed work scope involves <u>nuclear fuel cycle related research and development (R&D) or manufacturing activities</u>.</p> <p>Comment:</p>
<p>- - -</p>	<p>47: Will work be performed in a DOE owned nuclear facility that is not managed by PNNL (e.g., 324 Bldg., 327 Bldg., 222S, Tank Farms, Los Alamos National Laboratory, Savannah River Site)?</p> <p>Comment:</p>

	<p>48: Will work be performed in the Radiochemical Processing Laboratory (325 Building)? If Yes:</p> <p>Will this work require the development of new procedures (see the <u>RPL Operations Manual</u>)?</p> <ul style="list-style-type: none"> • If yes, it is recommended that a Safety Evaluation Screen be performed to ensure this work will not require a revision to the Safety Analysis Report (SAR). Contact the RPL Independent Review Committee for assistance. • If yes, it is recommended that an Air Compliance Review Checklist be completed to ensure this work will not require a revision to the RPL Air Permit. Contact the RPL Environmental Compliance Representative (ECR) for assistance. <p>Will the activity require modifications to existing facility systems, structures, or components? If yes it is recommended that a Safety Evaluation Screen be performed to ensure this work will not require a revision to the Safety Analysis Report (SAR). Contact the RPL Building Manager to perform this screen.</p> <p>Comment:</p>
	<p>49: Will a formal Project Management Plan be prepared?</p> <p>Comment:</p>
	<p>50: Does this project involve experimental or field work?</p> <p>Projects which do not include experimental or field work activities are referred to as Paper Studies. For a more detailed list of the criteria that delineate Paper Studies from experimental or field work, click the INFO for this question.</p> <p>Experimental project activities include, but are not limited to, the following (check any that apply to your project and provide additional information in the Comments section):</p> <ul style="list-style-type: none"> <input type="checkbox"/> environmental sampling or field data collection <input type="checkbox"/> demonstrations of equipment operation <input type="checkbox"/> off-road travel in isolated areas <input type="checkbox"/> laboratory analysis <input type="checkbox"/> other (please specify in the comment for this question) <p>➡ NOTE: Even though the final deliverable may be nothing more than a report, a project is NOT a Paper Study if it involves any experimental or field work.</p> <p>Comment:</p>
	<p>51: Will the project involve research on living human beings about whom private information will be obtained through manipulation or intervention? This includes studies that:</p> <ul style="list-style-type: none"> • Use humans to test devices, products or materials. • Use data collected through intervention or interaction with individuals. Genetic information would be an example of data collected through intervention or interaction. • Use private information that can be readily identified with individuals. • Use bodily materials from a "living individual", including cells, blood, urine, tissues, organs, hair and nail clippings even if the researcher does not collect these materials. • Use humans to evaluate environmental alterations - for example, weatherization options

or habitat modifications.

Comment:

- - - **52: Will the project involve the use of animal subjects?**

Comment:

- - - **53: Will the project involve food, drugs, materials, devices, or processes for use in human or animal subjects?**

Comment:

- - - **54: Will the project involve the use or storage of chemicals or other materials of concern? If Yes, check all that apply:**

- asbestos
- carcinogens
- corrosives
- explosives
- flammable liquids and solids
- herbicides, pesticides
- oils
- PCBs
- peroxide formers
- pyrophorics
- poisons, toxics
- regulated metals (lead bricks, beryllium, zirconium stock, magnesium, etc.)
- reproductive toxins (mutagens, teratogens)
- surety agents
- other (please specify in the comment field for this question).

Comment:

- - - **55: Will the project involve the use of biological agents? If Yes, check all that apply:**

- pathogens
- recombinant DNA
- environmentally-sensitive microbes.
- human blood, human blood components, or products made from human blood.

Comment:

- - - **56: Will the work require the storage and/or use of materials that will significantly increase facility fire loading, potentially cause a fire, or significantly increase the severity of a fire? If Yes, check all that apply:**

- open flames, welding, or other spark-producing activities

- flammable or combustible liquids.
- flammable gases.
- explosive materials.
- other, such as:

- materials that are highly reactive (e.g., organic peroxides or inorganic peroxides, concentrated nitric acid or potassium permanganate), pyrophoric, or otherwise spontaneously combustible.
- storage of significant quantities of chemicals or combustible materials.
- furnaces, stills, heating systems, or appliances.
- activities that have the potential to cause electrical fires.
- flammable solids.

Comment:

57: Will the project involve the use, storage, or disposal of radioactive materials, the use of radiation-generating devices, or exposure to ionizing radiation? If yes, check all that apply:

Will the project involve the use of non-fissionable radioactive materials or entry into a radiological area?

NOTE: A radiological area is any Radiologically posted area within a controlled area (But not including the "Radiological Controlled Area").

- fissionable radionuclides.
- ionizing radiation-generating devices (RGDs) such as x-ray sources, accelerators, or sealed radioactive sources
- potential radiological exposure while visiting a U.S. facility?
- potential radiological exposure while visiting a foreign facility?
- other (please specify in the comments to this question)

Comment:

58: Environmental Considerations. Do any of the following environmental considerations apply to your project? If Yes, check all that apply and provide a brief description:

- The project may receive into the laboratory or generate, handle, store or treat hazardous, radioactive, PCB, asbestos, or mixed waste (including equipment).
- The project will vent regulated or hazardous off-gases or particulates to a building ventilation system or to the environment.
- The project will discharge regulated or hazardous liquids to a sewer system, the ground, groundwater, or a storm water runoff system.
- Staff will be working at a hazardous waste site (i.e., CERCLA or RCRA remediation site), or a hazardous waste treatment, storage or disposal (TSD) facility.
- The project includes responsibility for management of a hazardous waste site operation (i.e., RCRA, CERCLA, Treatment, Storage or Disposal Facility).
- The project will transport or ship regulated substances, including:

- transport of hazardous materials or ozone depleting substances onto or off of the Hanford site, or between buildings,
- shipment of hazardous, radioactive, or mixed waste onto or off of the Hanford Site.

If the project requires procurements, have measures been taken to acquire equipment and

materials that are made of recycled substances or are recyclable?
 The work will involve the potential for disturbing wildlife (including nests of birds) or damaging or destroying plants other than commercial landscape material.
 The work requires excavation of soil, building modifications, or building demolition.
 Other (please specify in the comments to this question).

Comment:

59: Will the work involve the use of or exposure to non-ionizing radiation? For example:

- Class II, IIIa, or IIIb (visible < 15mW) lasers
- Class IIIb (non-visible > 15mW) or IV lasers
- static magnetic fields > 5 G at locations accessible to personnel or static magnetic fields > 600 G at any location
- dynamic magnetic fields > 1 G at 60 Hz or dynamic electric fields > 1kV/m at 60 Hz
- radio frequency (RF) or microwave sources exceeding 10 mW radiated output
- infrared sources > 10 W
- ultraviolet sources > 1 W
- extremely low frequency (ELF) radio sources

Comment:

60: Will the project involve the use of pressurized or vacuum systems? For example:

- compressed gases (e.g., lecture bottles, cylinders, or gas lines)
- boilers
- pressurized vessels or systems with components larger than 15 cm in diameter at > 100 kPa (15 psi) or less than 15 cm in diameter with a stored energy greater than 1000 J (i.e., pV > 10 l-atm)
- vacuum chambers or systems with > 1000 J stored energy (i.e., pV > 10 l-atm, e.g., an evacuated 10 l container)
- autoclaves
- evacuated system constructed of glass or similar material
- piped utilities (steam, natural gas, propane)

Comment:

61: Will the project involve activities or work locations that pose an elevated risk of physical injury? If Yes, check all that apply:

- work in confined spaces
- work at locations where there are limited means of emergency communications or where there is a limited emergency response capability (remote locations)
- use of cryogenics (e.g., liquid nitrogen)
- staff exposure to fall hazards (e.g., ladders, elevated platforms, towers)
- work with exposed surfaces at temperatures > 50C or < 0C
- work in trenches or soil excavation
- work in atmospheres where the potential exists for the oxygen content to be equal to or greater than 23.5% or less than 19.5% by volume

- use of material-handling equipment (e.g., cranes, hoists, forklifts)
- use of mechanical power transmission apparatus (e.g., belts, chains, gears, rollers, rotating shafts)
- use of powered equipment (e.g., woodworking or metal-working machinery, shears, punches, presses)
- use of stationary or remotely operated equipment, robots, or robot systems
- use of large batteries (DC electrical concerns)
- work that involves extraordinary electrical hazards, such as exposed conductors or unshielded energized apparatus at electrical potentials > 50V
- work that involves static electric fields
- work that involves extreme environmental temperatures
- work that involves noise levels greater than 85 dba?
- use of explosives or live ordnance
- use of firearms
- use of tranquilizer dart guns
- other (please specify in the comments to this question)

Comment:

62: Will the project involve other special occupational hazards? If yes, check all that apply:

use of aircraft (including unmanned remote controlled aircraft) in other than regularly scheduled commercial flights.

Performance of Underwater Diving:

- Supplied gas (e.g. SCUBA)
- Snorkel or other forms of non-supplied gas underwater diving

work in tunnels or mines.

use of four-wheel drive or all-terrain vehicles in off-road locations or on unimproved roads.

use of off-road vehicles or other specialized vehicles (e.g., military vehicles, remotely operated vehicles).

use of watercraft.

response to spills or releases of hazardous substances/materials.

work at sites that are occupied or controlled by others.

work in locations that are associated with high hazard industries (e.g., construction, foundry operations, logging, mining, refining)

other (please specify in the comments to this question)

Comment:

63: You may provide any additional project comments here:

Comment:

I have considered the following:

The hazards and risks that could impact safety, budget, and schedule have been identified and can be controlled.
 People, equipment, and facilities will be available to do the work during the performance period.
 The work fits within the Laboratory's business strategies & should be pursued.

There is a reasonable probability of having a winning proposal.
The applicable environmental regulatory and waste disposal requirements will be complied with.

Comment:

Comment:

Name _____
Role _____ Signature/Date _____

Comment:

Name _____
Role _____ Signature/Date _____

Comment:

Additional Approvals:
Comment:

Name _____
Role _____ Signature/Date _____

Comment:

Name _____
Role _____ Signature/Date _____

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Name _____
Role _____ Signature/Date _____

Comment:

Comment:

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