

RL-721
REV 3

NEPA REVIEW SCREENING FORM

Document ID Number:

DOE/CX-00044

I. Project Title:

CATEGORICAL EXCLUSION FOR SMALL-SCALE RESEARCH AND DEVELOPMENT PROJECTS USING NANOSCALE MATERIALS, 300 AREA, RICHLAND, WASHINGTON - 2011-2012

II. Project Description and Location (including Time Period over which proposed action will occur and Project Dimensions - e.g., acres displaced/disturbed, excavation length/depth, etc.):

PNNL proposes to (1)conduct indoor small-scale research and development projects using nanoscale materials; (2)carry out pilot-scale projects using nanoscale materials; (3) complete minor modifications of existing laboratory rooms to support projects using nanoscale materials in the 300 Area. Activities involving nanoscale materials include, but are not limited to 1)nanoscale capabilities to design surfaces, interfaces, and thin films for selective chemical and physical properties 2)nanoscience and nanotechnology, including condensed phase and interfacial chemical physics, oxide surface science, catalysis and chemical transformation 3)minor modifications to rooms, equipment, and instrumentation in direct support of laboratory operations associated with the use of nanoscale materials. These activities would take place at multiple indoor laboratories in the 331, 318, 325, and 350 Buildings in 2011 and 2012. The CX will be reevaluated in 2013.

Activities would include reasonably foreseeable actions necessary to implement the proposed action, such as radiological control and safety support; sample, chemical, and material transport; project closeout; waste management, transport, treatment, storage and disposal; maintenance, development, and demonstration of processes, instruments and detectors; consulting and planning with sponsors and collaborators; maintenance, calibration, transport and use of analytical and research equipment; and award of grants and contracts.

1. Each activity would comply with DOE Policy 456.1 and DOE Order 456.1.
2. Each activity would be conducted within existing structures that provide appropriate wastewater storage/handling and additional confinement or controls appropriate to the nature of the materials and equipment used in the project. Wastes would be dispositioned in accordance with applicable local, state, and federal regulations, and DOE Orders and guidelines.
3. Each activity would comply with applicable facility safety and environmental administrative controls and permit requirements and would remain compliant with applicable facility, local, state and federal regulations, and DOE Orders and guidelines.
4. Each activity could use hazardous and/or radioactive materials, should the use be necessary. Inventories would be maintained at the lowest practicable levels while remaining consistent with continuing operations and research goals, pollution prevention measures, applicable permits and licenses and waste minimization practices.

III. Reviews (if applicable):

Biological Review Report #: _____

Cultural Review Report #: _____

Additional Attachments: _____

IV. Existing NEPA Documentation (see Steps 3 and 4 of Contractor Screening Process)

YES NO

Is the proposed action evaluated in a previous EA, EIS, or under CERCLA?

If "NO," proceed to Section V. If "YES," List EA, EIS, or CERCLA Document(s) Title and Number:

And then complete Section VII and provide electronic copy of Initiator/ECO signed NRSF to DOE NCO for information (see Step 6 of Contractor Screening Process).

V. Sitewide Categorical Exclusion (see Step 5 of Contractor Screening Process)

YES NO

Does the proposed action fit within the scope of actions identified in a DOE Hanford NCO-approved sitewide categorical exclusion?

If "NO," proceed to Section VI.

If "YES," list Sitewide Categorical Exclusion to be applied and complete Sitewide Categorical Exclusion Criteria:

Sitewide Categorical Exclusion Criteria	YES	NO
Does the action fail to meet the eligibility requirements for Appendix B categorical exclusion ("integral elements") of 10 CFR 1021, Subpart D, Appendix B, B(1) through B(4)?	<input type="checkbox"/>	<input type="checkbox"/>
Is the action connected to other actions with potentially significant impacts (see 40 CFR 1508.25(a)(1)) or result in cumulatively significant impacts (see 40 CFR 1508.25(a)(2))?	<input type="checkbox"/>	<input type="checkbox"/>
Are there extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal?	<input type="checkbox"/>	<input type="checkbox"/>
Does the action involve or disturb the Hanford Reach National Monument, Rattlesnake Mountain, Gable Mountain, Gable Butte or other Traditional Cultural Properties or properties of historic, archaeological or architectural significance, or occur within one-fourth mile of the Columbia River?	<input type="checkbox"/>	<input type="checkbox"/>
Does the proposed action impact sensitive species or their habitats?	<input type="checkbox"/>	<input type="checkbox"/>

If "NO" to all Sitewide Categorical Exclusion Criteria questions above, complete Section VII and provide electronic copy of Initiator/ECO signed NRSF to DOE NCO for information (see Step 6 of Contractor Screening Process).

If "YES" to any of the Sitewide Categorical Exclusion Criteria questions above, attach appropriate explanatory information and provide NRSF to DOE NCO; DOE initiates DOE NEPA Review Screening Process - Step 1 by completing Section VI and VIII, as appropriate.

VI. Categorical Exclusion	YES	NO
Does the proposed action fall within a class of actions that is listed in Appendixes A or B to Subpart D of 10 CFR Part 1021?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

List CX to be applied and complete Categorical Exclusion Criteria (based on Eligibility Criteria of the NEPA Determination Procedure):

CX B3.15, Small-scale indoor research and development projects using nanoscale materials

Categorical Exclusion Criteria	YES	NO
Does the proposed action threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, or health, including DOE and/or Executive Orders?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the proposed action require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the proposed action disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the proposed action adversely affect environmentally sensitive resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are there extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the proposal connected to other actions with potentially significant impacts or result in cumulatively significant impacts (not precluded by 40 CFR 1506.1 or 10 CFR 1021.211)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If "NO" to all Categorical Exclusion Criteria questions above, DOE NCO completes Section VIII, provides electronic copy of signed NRSF to contractor, and otherwise complies with Step 4 of the DOE NEPA Review Screening Process - Step 1.

If "YES" to any of the Categorical Exclusion Criteria questions above, DOE NCO complies with Step 5 of the DOE NEPA Review Screening Process - Step 1, and initiates DOE NEPA Review Screening Process - Step 2.

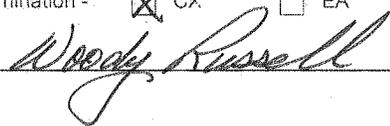
VII. Approvals/Determination			
	Name (Printed)	Signature	Date
Initiator			
Cognizant Environmental Compliance Officer	Amanda Stegen		12/06/11

VIII. Approval/Determination

DOE NEPA Compliance Officer: Woody Russell

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class of action:

NCO Determination - CX EA EIS

Signature:  Date: 12/06/11