

DOE-ID NEPA CX DETERMINATION

SECTION A. Project Title: Automated Chromatography System for Purification of New Reagents for An/Ln Extraction and Separation – Washington State University

SECTION B. Project Description

Washington State University proposes to purchase and install a Teledyne Isco CombiFlash Rf+ Luman with UV-Vis and Evaporative Light Scattering Detector to improve the current purification abilities for newly designed and synthesized organic ligands.

SECTION C. Environmental Aspects / Potential Sources of Impact

Chemical Use/Storage – Work will be conducted in a chemistry laboratory using chemical reagents, acids, alkalis, and solvents.

Chemical Waste Disposal – All chemicals will be properly disposed of following WSU Safety Policies and Procedures Manual S70.40

Hazardous Waste Generation – Conduct of research will generate wastes containing chemical reagents including nitrates and heavy metals

SECTION D. Determine the Level of Environmental Review (or Documentation) and Reference(s): Identify the applicable categorical exclusion from 10 CFR 1021, Appendix B, give the appropriate justification, and the approval date.

Note: For Categorical Exclusions (CXs) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities; 3) 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; 4) adversely affect environmentally sensitive resources. In addition, no extraordinary circumstances related to the proposal exist which would affect the significance of the action, and the action is not “connected” nor “related” (40 CFR 1508.25(a)(1) and (2), respectively) to other actions with potentially or cumulatively significant impacts.

References: B1.31 Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts.

Justification: The activity consists of purchasing equipment for teaching and research purposes.

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act) Yes No

Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on 04/10/2015