DOE-ID NEPA CX DETERMINATION IDAHO NATIONAL LABORATORY

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	ECX Posting No.: DOE-ID-INL-12-012
SECTION A.	Project Title: Film Processing Project at Test Reactor Area (TRA)-678
05051011.5	
SECTION B.	Project Description
implementing po approximately 40 Accumulation Ar processor effluer	ction is to install a silver recovery unit to the film processor in the film processing area at TRA-678 for the purpose of minimizing waste generation and solution prevention. The proposed film processor (Kodak M-35A) generates approximately 90 ml of developer and 140 ml of fixer effluents per 17 inch film and 0 gallons per hour of rinse water effluent. Developer and fixer effluents from the current film processing equipment are being collected in a Satellite rea (SAA). The new equipment would eliminate the need for storing the effluent in the SAA by filtering silver from the effluent for recycling. The remaining not would then meet the acceptable discharge limits for the Advanced Test Reactor (ATR) sewage lagoon. The equipment to be purchased and utilized for rom the film processing project at ATR is equivalent in make and model to the equipment used at the film processing area at the Materials and Fuels Complex
discharge. The the for silver under 4 on a regular basis	SP-10.6.5.10 "Reactor Test Complex (RTC) Ponds Wastewater Acceptance Criteria" would be utilized to establish the allowable effluent quantities for hreshold set for silver under 40 Code of Federal Regulatory (CFR) 143 "National Secondary Drinking Water Regulations" is set at 0.1 mg/l. The threshold set 10 CFR 261 "Identification and Listing of Hazardous Waste" is at 5.0 mg/l. The fixer effluent would be sampled after initial set-up of the silver recovery unit and is prior to ion column change out. Results below 0.1 mg/l would serve as justification to discharge the fixer effluent directly to the sanitary sewer drain. Sample 1 mg/l would require capture of fixer effluent after treatment through the silver recovery columns and continued use of the SAA.
	ement Authority (WMA) would be reviewed and approved through the SP-10.6.5.8/SP-10.6.5.10 process to address sampling of the fixer and to serve as the riging the effluent from the ATR film processing equipment to the ATR sewage lagoon.
The used column	ns would be triple rinsed prior to being returned to the vendor for processing. The recovered silver would be recycled by the vendor.
Projected start d Projected end da Estimated cost: /	
SECTION C.	Environmental Aspects / Potential Sources of Impact:
scope, the efflue Generating and	Surface-, Storm-, or Ground Water: Effluent would go directly to the sanitary sewer system rather than being collected in an SAA. As described in the project ent must meet the limits set by 40 CFR 261 and 40 CFR 143. This process would be equivalent to the film processing set up at MFC. I Managing Waste: Pollution prevention/waste minimization would be implemented where economically practicable to reduce the volume and/or toxicity of the seconomically processing set up at the proposed facility. All waste
	I. Silver recovery columns would be hazardous waste and transferred to Waste Generator Services (WGS) for recycling at an approved facility. All waste be transferred to WGS for appropriate disposition.
Releasing Cont	aminants: All chemicals utilized by this evolution would be managed in accordance with laboratory procedure.
	, and Conserving Natural Resources: All materials would be reused and recycled where economically practicable. All applicable waste would be diverted the landfill where conditions allow. Silver recovery columns would be hazardous waste and transferred to WGS for recycling at an approved facility.
SECTION G.	Recommended 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.
requirements for recovery, or trea environment suc circumstances re	ts checked above as "CX" (Categorical Exclusion) the proposed action must not: 1) threaten a violation of applicable statutory, regulatory, or permit environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion of waste storage, disposal, threat facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the that there would be uncontrolled or unpermitted releases; 4) adversely affect environmentally sensitive resources. In addition, no extraordinary elated 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), other actions with potentially or cumulatively significant impacts. Note: The above paragraph does not apply to EA, EIS, or CERCLA related activities.
	tional Environmental Policy Act (NEPA) Implementing Procedures, Final Rule, 10 CFR 1021. Appendix B to Subpart D, Categorical Exclusion B6.8 or waste minimization and reuse of materials."
acceptable disch categorical exclu generation and for	e proposed action would provide the capability to minimize waste generation by filtering the liquid effluent for silver recovery for recycling and to meet narge limts for the remaining effluent to be discharged to the ATR sewage lagoon and is consistent with 10 CFR 1021 Appendix B to Subpart D, item B6.8 usion," Modifications for waste minimization and reuse of materials" which includes "Minor operational changes at an existing facility to minimize waste for reuse of materials. These changes include, but are not limited to, adding filtration and recycle piping to allow reuse of machining oil, setting up a sorting process efficiency, and segregating two waste streams previously mingled and assigning new identification codes to the two resulting wastes."

☐ Yes ☐ No

Approved by Jack Depperschmidt, DOE-ID NEPA Compliance Officer on: 5/21/2012

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act)