U.S. Department of Energy Office of Legacy Management National Environmental Policy Act Environmental Checklist

Project/Activity: Drill one exploratory borehole on Lease Tract 15A by Golden Eagle Uranium

A. Brief Project/Activity Description

Golden Eagle Uranium LLC proposes to drill one 5-inch-diameter exploratory borehole on U.S. Department of Energy (DOE) lease tract C-SR-15A, located in western San Miguel County, Colorado. The drilling would be completed by a truck-mounted rotary drill rig capable of boring to 1,000 feet (ft) below ground surface (bgs). The proposed location of the borehole is in a previously disturbed area and is adjacent to a two-track dirt road. Access to the site would be on existing dirt roads.

The drilling would be completed dry to an estimated depth of 600 ft bgs. Once data are collected, the hole would be plugged in accordance with Colorado Division of Reclamation, Mining, and Safety regulations. After the borehole is advanced to the desired depth, cuttings showing uranium mineralization would be returned to the borehole first, and the remaining materials would be placed in the hole to a depth of 7 ft bgs. Polyurethane foam or concrete would be used to fill the next 5 ft, and the final 2 ft would be filled with native soil. If groundwater is encountered, bentonite pellets would be used to plug the saturated zone and thereby restrict groundwater movement and potential cross-contamination. Groundwater is not expected to be encountered during the drilling.

The drill site would occupy an area of approximately 20 ft by 50 ft, and a mud pit approximately 10 ft by 10 ft by 3 ft deep would be excavated to contain the drill cuttings and topsoil. All topsoil materials would be segregated from the cuttings and used to reclaim the site. Reclamation of the site after completion of all activities would include grading of all disturbed areas and seeding with an approved native plant mixture.

It is expected that less than 200 gallons of diesel fuel and 55 gallons of motor oil and hydraulic fluids would be needed for equipment operation; these fluids would be stored in appropriate containers on the beds of support vehicles.

The area was evaluated for the presence of cultural resources and none were identified. The work is planned to be conducted after migratory bird season, although there are no breeding or nesting birds known to be present on the site. No wetlands are present.

B. Environmental Concerns

Evaluate the following elements and indicate by checking "yes" or "no" if any phase of the project/activity would result in a change or impact that is subject to regulatory permits, controls, or plans or that would require additional evaluation. If the "yes" column is checked, provide a brief explanation below and attach sheets with additional detail as necessary or appropriate.

Element	Yes	No	Element		
Air emissions/air quality	\boxtimes		Exposure/impacts to public or workers		\boxtimes
Noise	\boxtimes		Need for public awareness/involvement		\boxtimes
Solid waste generation		X	Transportation/traffic control required		\boxtimes
Mixed waste management		\boxtimes	Access to/use of DOE property		\boxtimes
Chemical storage on site		X	Visual resources impacted		\boxtimes
Pesticide/herbicide use			Cultural/archaeological resources present		\boxtimes
Toxic substances management			Wetland/floodplain impacted		\boxtimes
Regulated quantities of petroleum used or stored on site			Protected species present: federal, state, or tribe listed		×
Radioactive materials/soils			Migratory birds breeding or nesting		\boxtimes
Surface (ground) disturbance			Wild/scenic rivers impacted		Ø

Element	Yes	No	Element		
Surface water use/contamination		\boxtimes	Prime/unique farmlands present		\boxtimes
Surface water quality		\boxtimes	Groundwater use/contamination		\boxtimes
Groundwater quality affected		\boxtimes	Other considerations		\boxtimes

C. Explanation and Qualification of All "Yes" Responses

Air emissions/air quality: The dry drilling operation would likely generate fugitive dust. If necessary, water would be used as a dust suppressant and applied by a water truck brought to the location.

Noise: Anticipated noise levels would be commensurate with the use of a drilling rig. Noise would be limited to the duration of the project.

Surface (ground disturbance): Surface disturbance would consist of the borehole and excavation of a mud pit. All disturbed areas would be reclaimed after completion of the drilling. Less than an acre would be disturbed.

D. Eligibility/Conditions

The proposed action fits within a class of actions listed in Appendix A or B to Subpart D of Title 10 Code of Federal Regulations Part 1021 (10 CFR 1021); DOE has determined that these classes of actions do not individually or cumulatively have a significant effect on the human environment (see 10 CFR 1021.410). There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposed action, and the proposed action is not "connected" to other actions with potentially significant impacts. Finally, the action is not related to other proposed actions with cumulatively significant impacts and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211.

E. Recommendation

The proposed drilling of one borehole is an allowable activity under Criterion B3.1 (f) of Appendix B to

prop	osed reclamation of the dist	urbed area after dril	ling is completed is	an allowable activity under has reseeding and revegetation	
	Meets Criteria	Does Not	Meet Criteria	Unsure	
The relev				Checklist and the information een reviewed, and the following	g
\boxtimes	The proposed actions meet	the criteria for cate	gorical exclusion.		
	The proposed actions do not meet the criteria for categorical exclusion; therefore, recommend that the LM NEPA Planning Board be convened based on my recommendation (see ttached rationale) to complete:				
	an Interim Action		an Enviro	nmental Assessment	
	an Environmental Imp	act Statement	a Supplen	nental Analysis	

Concurrences

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LM Site Name Golden Eagle LLC Lease Tract 15A	LM Site Program Uranium Lease Program	
Contractor NEPA Coordinator Sandy Beranich	Signature Sandra Berewich 2010.05.24 11:44:48 -06'00'	Date
Contractor Site Lead Ed Cotter	Signature 2010.05.24 12:22:25 -06'00'	Date
LM Site Manager Laura Kilpatrick	Signature Laura E. Kilpatrick DOE LM - Rocky Fla 2010.05.24 17:30:09	
LM NEPA Compliance Officer Richard Bush	Signature Ulark	Date 6/15/10

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