11,

DOE	NEPA	Tracking	Number

U. S. DEPARTMENT OF ENERGY, OFFICE OF SCIENCE INTEGRATED SUPPORT CENTER—CHICAGO OFFICE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) **ENVIRONMENTAL EVALUATION NOTIFICATION FORM**

To be completed by "Applicant," i.e., organization receiving funds and/or implementing Federal Actions as defined by 40 CFR § 1508.18. For assistance, refer to "Instructions for Preparing ISC-CH F-560, Environmental Evaluation Notification Form."

Modhusoton Halvordhi	
oposed Action: Relocation and Unification of Legacy Low Dose Tissues to Northwestern Univ	ersity JANUS Archive
Funding/Total Funding: \$15,000	
ject Description: (Use explanation pages if additional space is required)	
Proposed Project/Action (if applicable, delineate Federally funded/Non-Federally funded/	ed portions)
archived tissue and data from the Argonne National Laboratory project (already at Northwestern Activities proposed include packing, shipping and unpacking of large volumes of paraffin embed	University). ded animal tissues from
Would the project proceed without Federal funding? If "yes," use explanation page.	Yes No □ ⊠
	Relocation and Unification of Legacy Low Dose Tissues to Northwestern University poposed Action: Relocation and Unification of Legacy Low Dose Tissues to Northwestern University Funding/Total Funding: \$15,000 Proposed Project/Action (if applicable, delineate Federally funded/Non-Federally funded/We are requesting federal funds to consolidate tissues and data from the Lovelace Respiratory I (historically ITRI) tissue archive as well as Pacific Northwest Natl' Lab to make them publically a archived tissue and data from the Argonne National Laboratory project (already at Northwestern Activities proposed include packing, shipping and unpacking of large volumes of paraffin embed animals exposed to extarnal or internal radiation. It should be noted that these samples pose no see optional additional narrative. Would the project proceed without Federal funding?

Description of Affected Environment: (Use explanation pages if additional space is required)

No environments should be touched in any way - no radioactive or toxic waste will be produced in the course of this work.

I. <u>P</u> i	relimina	ry Questions:		
A,	. <u>Is th</u> e	e DOE-funded work routinely administrative or entirely advisory or a "paper study?"	Yes	No ⊠
	If "Y	es", ensure that the description in Section I reflects this and go directly to Section V		
В.	ls the	ere any potential whatsoever for: (Provide an explanation for each "Yes" response)		
	1.	Work to be performed outdoors?		
	2.	Major modification of a building interior?		
	3,	Threat of violation of applicable statutory, regulatory, or permit requirements for	U	N.
	4,	environment, safety, and health? Siting, construction or major expansion of waste treatment, storage, or disposal		×
		facilities?		
	5.	Disturbance to hazardous substances, pollutants, or contaminants preexisting in the		☒
		environment?		
	6.	The presence of any environmentally-sensitive resources?	Ш	
	7.	Potential for high consequence impacts to human health or the environment?		X
	8.	The work being connected to another existing/proposed activity that could potentially	ш	N)
	9.	create a significant impact? Nearby past, present, and/or reasonably foreseeable future actions such that		\boxtimes
		collectively significant impacts could result?		KN
	10.	Scientific or public controversy, uncertainty over potential impacts, or conflicts		\boxtimes
		regarding resource usage? o" to ALL Section III.B. questions, go directly to Section V.		
	otential l	o" to ALL Section III.B. questions, go directly to Section V. Environmental Effects: (Provide an explanation for each "Yes" response)		vof
/, <u>Рс</u> А.	otential I Sens	o" to ALL Section III.B. questions, go directly to Section V.	ces to an	<u>y of</u>
	otential I Sens the fo	o" to ALL Section III.B. questions, go directly to Section V. Environmental Effects: (Provide an explanation for each "Yes" response) itive Resources: Could the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and/or disturbance of the proposed action potentially result in changes and the proposed action potentially result in the propo	es to an	<u>v of</u> No
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	Sens the for 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Environmental Effects: (Provide an explanation for each "Yes" response) itive Resources: Could the proposed action potentially result in changes and/or disturbance of the protected Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Cultural or Historic Resources Important Farmland Non-Attainment Areas for Ambient Air Quality Standards Class I Air Quality Control Region Special Sources of Groundwater (e.g. Sole Source Aquifer) Navigable Air Space Coastal Zones Areas with Special National Designation (e.g. National Forests, Parks, Trails) Floodplains and/or Wetlands	Yes	No
	Sens the for 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Regulactivi	environmental Effects: (Provide an explanation for each "Yes" response) itive Resources: Could the proposed action potentially result in changes and/or disturbance of the protected Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Cultural or Historic Resources Important Farmland Non-Attainment Areas for Ambient Air Quality Standards Class I Air Quality Control Region Special Sources of Groundwater (e.g. Sole Source Aquifer) Navigable Air Space Coastal Zones Areas with Special National Designation (e.g. National Forests, Parks, Trails) Floodplains and/or Wetlands inlated Substances/Activities: Would the proposed action involve any of the following regulaties?	Yes	No
	Sens the for 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Regulativi	environmental Effects: (Provide an explanation for each "Yes" response) itive Resources: Could the proposed action potentially result in changes and/or disturbance of the protected Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Cultural or Historic Resources Important Farmland Non-Attainment Areas for Ambient Air Quality Standards Class I Air Quality Control Region Special Sources of Groundwater (e.g. Sole Source Aquifer) Navigable Air Space Coastal Zones Areas with Special National Designation (e.g. National Forests, Parks, Trails) Floodplains and/or Wetlands illated Substances/Activities: Would the proposed action involve any of the following regulaties? Natural Resource Damage Assessments	Yes	No
	Sens the for 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Regulativi	o" to ALL Section III.B. questions, go directly to Section V. Environmental Effects: (Provide an explanation for each "Yes" response) itive Resources: Could the proposed action potentially result in changes and/or disturbance of the protected species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Cultural or Historic Resources Important Farmland Non-Attainment Areas for Ambient Air Quality Standards Class I Air Quality Control Region Special Sources of Groundwater (e.g. Sole Source Aquifer) Navigable Air Space Coastal Zones Areas with Special National Designation (e.g. National Forests, Parks, Trails) Floodplains and/or Wetlands Idated Substances/Activities: Would the proposed action involve any of the following regulaties? Natural Resource Damage Assessments Invasive Species or Exotic Organisms	Yes	No
	Sens the for 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. Regulativi	environmental Effects: (Provide an explanation for each "Yes" response) itive Resources: Could the proposed action potentially result in changes and/or disturbance of the protected Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Cultural or Historic Resources Important Farmland Non-Attainment Areas for Ambient Air Quality Standards Class I Air Quality Control Region Special Sources of Groundwater (e.g. Sole Source Aquifer) Navigable Air Space Coastal Zones Areas with Special National Designation (e.g. National Forests, Parks, Trails) Floodplains and/or Wetlands illated Substances/Activities: Would the proposed action involve any of the following regulaties? Natural Resource Damage Assessments	Yes	No

В.		lated Substances/Activities: Would the proposed action involve any of the following lies? (continued)	regulated Ite	ms or
	activit	isos (Continued)	Yes	No
	18.	Noise (in excess of regulations)		in.
	19.	Asbestos Removal		T T
	20.	Polychlorinated biphenyls (PCBs)		
	21,	Import, Manufacture, or Processing of Toxic Substances	Ħ	
	22.	Chemical Storage/Use	H	
	23.	Pesticide Use		H
	24.	Hazardous, Toxic, or Criteria Pollutant Air Emissions		H
				H
	25.	Liquid Effluents		H
	26.	Spill Prevention/Surface Water Protection		
	27.	Underground Injection		Η
	28.	Hazardous Waste		Ш
	29.	Underground Storage Tanks		Щ
H00004,	30.	Radioactive or Radioactive Mixed Waste		Ц
	31.	Radiation Exposure		Ш
	32.	Nanoscale Materials		Ш
	33.	Genetically Engineered Microorganisms/Plants or Synthetic Biology?		
	34.	Ozone Depleting Substances		
	35.	Greenhouse Gas Generation/Sustainability		
	36.	Off-Road Vehicles		
	37.	Biosafety Level 3-4 Laboratory		
	38.	Research on Human Subjects or other Vertebrate Animals		in .
	39	Facility footprint exceeds 5,000 Square Feet	5	
	40. 41. 42. 43. 44. 45. 46. 47.	Disproportionate Nearby Presence of Minority and/or Low Income Populations Existing, Modified, or New Federal/State Permits Involvement of Another Federal Agency (e.g. license/permit, funding, approval) Action in a State with NEPA-type law Expansion of Public Utilities/Services Depletion of a Non-Renewable Resources Subject to an Existing Institutional Work Planning and Control Process Other Pertinent Information Which Could Impact Human Health or the Environment		
Do	es this d be oblig	Certification that to the best of their knowledge all information provided on this form is disclosure contain classified, confidential, or other exempt information that DOE would gated to disclose pursuant to the Freedom of Information Act?	Yes	No ⊠
A.		ture: Date: 9/1//	· · · · · · · · · · · · · · · · · · ·	
			•	
	e-mail	: OSR-Chicago@northwestern.edu Phone: 312-503-7955		
B.	Option	RM SP0031543 nal Secondary Approval (Name and Title):		erana teinainemana
	Signal	ture: Date:		-
	e-mail	:Phone:		

DOE NEPA Tracking Number

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Remainder to be completed by DOE

DC	DE Concurrence/Recommendation/Determination:		
A.	DOE Project Director/Program Manager or Contract/Grant Management Specialist:	Yes/	No
	Has the Applicant completed the Form correctly? Does an existing Generic Categorical Exclusion apply? If yes, indicate:		
	Name and Title: Sable Williams Contract Special Signature: Date: 9/14	USF	
	Signature: All Well Date: 9/14	115	
В.	DOE NEPA Team Review:		
	Is the class of action identified in the DOE NEPA Regulations (Appendices A-D to Subpart D (10 CFR § 1021))? If yes, specify the class(es) of action:	Yes	No □
	Name and Title:		
	Signature: Date:	- Control of the Cont	
3.	DOE Counsel (if requested):		
	Name and Title:		
	Signature: Date:		
Э,	DOE NEPA Compliance Officer:		
	e preceding pages are a record of documentation required under DOE Final NEPA Regul 21.400.	ation, 10 CFR §	§
Ø	Action may be categorically excluded from further NEPA review. I have determine action meets the requirements for Categorical Exclusion referenced above.	d that the prope	osed
	Action requires approval by Head of the Field Organization. Recommend preparat Environmental Assessment.	ion of an	
1	Action requires approval by Head of the Field Organization or a Secretarial Officer, preparation of an Environmental Impact Statement.	Recommend	
	Comments/limitations if any:		
	NEPA Compliance Officer:		
6	Name: Pekr B. Sieboch Date: 9	114/20	18

DOE NEPA Tracking Number

Optional Additional Narrative: (add additional detail to description to Sections I and II or explanations to responses in Sections III and IV.

We request funds to pack, ship and unpack paraffin embedded animal tissues from animals exposed to radioactive materials.

All "hands-on" activities will be conducted indoors. While shipping part of the process can be viewed as "outdoors" shipping of these samples is fully covered by DOT guidelines. NRC states the following:

"For transportation purposes, radioactive material is defined as any material which has a specific activity greater than 0.002 microcuries per gram. This definition does not specify a quantity, only a concentration. As an example, pure cobalt-60 has a specific activity of 1,000 curies per gram, which is about 500 billion times greater than the definition. However, uranium-238 has a specific activity of only 0.3 microcuries per gram, which is only 150 times greater than the definition. Although both exceed the definition of radioactive material in their pure form, either of these materials could be uniformly mixed with enough substance, such as dirt, which would cause the concentration to fall below the definition. In the case of uranium-238, if one gram were mixed with about 150 grams of dirt (about 1/3 of a pound), the concentration could be classified as non-radioactive." http://www.nrc.gov/reading-rm/basic-ref/teachers/11.pdf

Radioactivity of animal samples that are shipped is well below 0.002 micro Curies per gram.

This radioactivity can not be released or extracted from the samples -- animal tissues are embedded in paraffin.