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."

Solicitation/Award No. (if applicable): <u>DE-FOA-0001099 Research. Development and Training in Isotope Production</u> Sloan Kettering Institute for Cancer Research						
Organization Name:	ban Kettering					
Title of Proposed Action:	Production	of the Medically Important Radionuclides 52Mn and 90Nb				
Total DOE Funding/Total	Funding:	\$279,946				

1. <u>Project Description</u>: (Use explanation pages if additional space is required)

A. Proposed Project/Action (if applicable, delineate Federally funded/Non-Federally funded portions)

This collaborative proposal will create an integrated program of radionuclide production and research activities aimed toward the efficient isolation and characterization of the medically-relevant nuclides 52Mn and 90Nb. These two metalloradionuclides were selected based on their emerging importance to the nuclide and medical communities but general lack of availability. The research described in this proposal will develop parameters and procedures for delivering clinical-grade, high specific-activity 52Mn and 90Nb for preclinical and translational applications by optimizing the cyclotron targetry and separation chemistry of 52Mn and 90Nb for use in basic positron-emission tomography (PET) radiotracer experiments. In addition the infrastructure that will be put in place through this project will enable a long term research partnership, with broader impact, between the three participating institutions.

B. <u>Would the project proceed without Federal funding?</u>

If "yes," use explanation page.

II. <u>Description of Affected Environment</u>: (Use explanation pages if additional space is required)

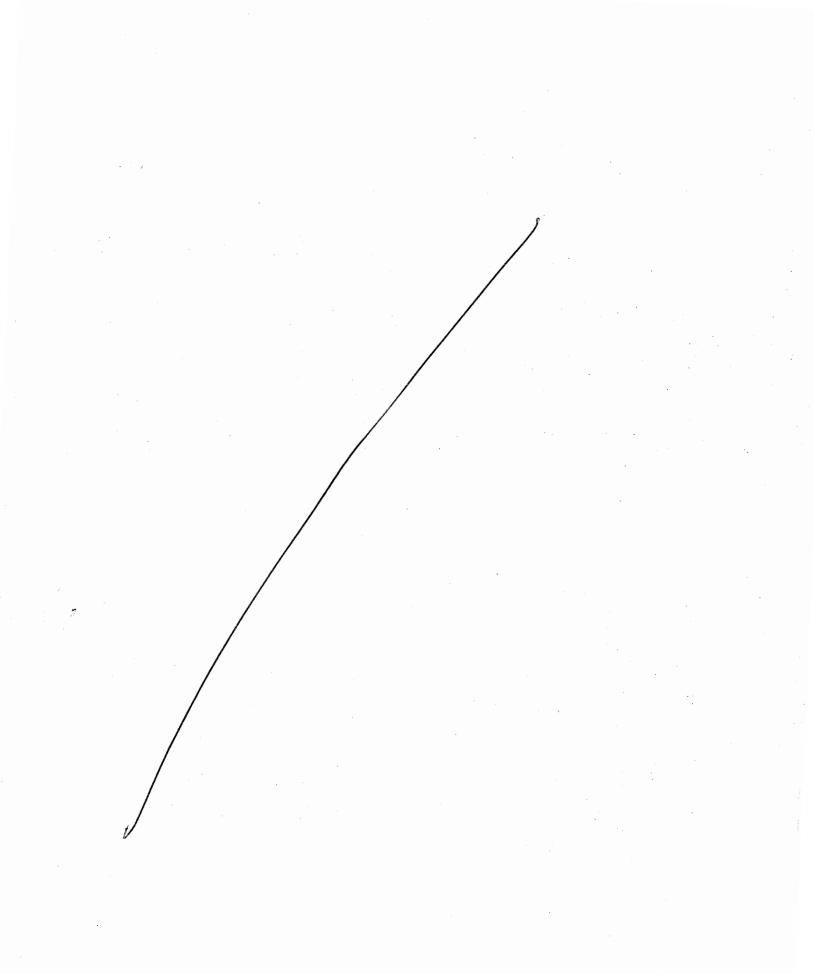
The work will be conducted indoors in the RMIP CORE laboratories within MSKCC - these ares include include Rms SC-08, 634 and 734 in the Schwartz Building and include multiple shielded radiochemistry cells and fume hoods, general chemistry labbenchs. work will also be done in our new Central Isotope Laboratory with 2 Hotcells & 1 Minicell; laminar flow hoods; QC lab; cell labeling lab; antibody labeling facilities. In November 2013 a new GEMS PETtrace-10 cyclotron was installed in Memorial Hospital with QC and labeling equipment, ancillary hotcells/minicells and GMP production facilities to increase MSKs basic science and clinical translation programs with PET nuclides - including those listedunder this proposal. Additional radiochemistry space is housed in the Mortimer B. Zuckerman Research Center (ZRC) across the street from the above laboratories. All personnel in proximity to the study will be fully trained, monitored and approved radation workers.

Yes

П

No

 \square



Pre	liminary	Questions	Yes	No		
Α.	Is the DOE-funded work routinely administrative or entirely advisory or a "paper study?"					
	lf "Yes	", ensure that the description in Section I reflects this and go directly to Section V.				
В.	Is there any potential whatsoever for: (Provide an explanation for each "Yes" response)					
	1. 2. 3.	Work to be performed outdoors? Major modification of a building interior? Threat of violation of applicable statutory, regulatory, or permit requirements for		\mathbb{X}		
	4.	environment, safety, and health? Siting, construction or major expansion of waste treatment, storage, or disposal facilities?		\boxtimes		
	5.	Disturbance to hazardous substances, pollutants, or contaminants preexisting in the environment?		\boxtimes		
	6.	The presence of any environmentally-sensitive resources?		\bowtie		
	7.	Potential for high consequence impacts to human health or the environment?		\mathbb{X}		
	8.	The work being connected to another existing/proposed activity that could potentially create a significant impact?		\boxtimes		
	9.	Nearby past, present, and/or reasonably foreseeable future actions such that collectively significant impacts could result?		\boxtimes		
	10.	Scientific or public controversy, uncertainty over potential impacts, or conflicts regarding resource usage?		\boxtimes		

- If "No" to ALL Section III.B. questions, go directly to Section V.
- IV. Potential Environmental Effects: (Provide an explanation for each "Yes" response)
 - A. <u>Sensitive Resources: Could the proposed action potentially result in changes and/or disturbances to any of the following resources?</u>

		Yes	No
1.	Threatened/Endangered Species and/or Critical Habitats		\boxtimes
2.	Other Protected Species (e.g., Burros, Migratory Birds)		XXX
3.	Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests)		\boxtimes
4.	Cultural or Historic Resources		\bowtie
5.	Important Farmland		\boxtimes
6.	Non-Attainment Areas for Ambient Air Quality Standards		\boxtimes
7.	Class I Air Quality Control Region		\boxtimes
8.	Special Sources of Groundwater (e.g. Sole Source Aquifer)		\bowtie
9.	Navigable Air Space		\mathbb{X}
10.	Coastal Zones		\boxtimes
11.	Areas with Special National Designation (e.g. National Forests, Parks, Trails)		\boxtimes
12.	Floodplains and/or Wetlands		

B. <u>Regulated Substances/Activities:</u> Would the proposed action involve any of the following regulated Items or <u>activities?</u>

- 13. Natural Resource Damage Assessments
- 14. Invasive Species or Exotic Organisms
- 15. Noxious Weeds

Destination

III.

- 16. Clearing or Excavation (indicate if greater than one acre)
- 17. Dredge or Fill (under Clean Water Act, Section 404, greater than one acre)

B.	Regulated Substances/Activities:	Would the proposed	action involve any	of the following	regulated Iten	ns or
	activities? (continued)			-		

	 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39 	Noise (in excess of regulations) Asbestos Removal Polychlorinated biphenyls (PCBs) Import, Manufacture, or Processing of Toxic Substances Chemical Storage/Use Pesticide Use Hazardous, Toxic, or Criteria Pollutant Air Emissions Liquid Effluents Spill Prevention/Surface Water Protection Underground Injection Hazardous Waste Underground Storage Tanks Radioactive or Radioactive Mixed Waste Radiation Exposure Nanoscale Materials Genetically Engineered Microorganisms/Plants or Synthetic Biology? Ozone Depleting Substances Greenhouse Gas Generation/Sustainability Off-Road Vehicles Biosafety Level 3-4 Laboratory Research on Human Subjects or other Vertebrate Animals Facility footprint exceeds 5,000 Square Feet	Yes	\mathbf{S} XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
C.		Relevant Information: Would the proposed action involve the following?	Yes	No
	40. 41.	Disproportionate Nearby Presence of Minority and/or Low Income Populations Existing, Modified, or New Federal/State Permits	H	
	42.	Involvement of Another Federal Agency (e.g. license/permit, funding, approval)		
	43.	Action in a State with NEPA-type law	H	
	44.	Expansion of Public Utilities/Services		×
	45.	Depletion of a Non-Renewable Resources	H	
	46.	Subject to an Existing Institutional Work Planning and Control Process		X
	47.	Other Pertinent Information Which Could Impact Human Health or the Environment		\boxtimes
App	licant C	ertification that to the best of their knowledge all information provided on this form is accu	rate:	-
			Yes	No
		sclosure contain classified, confidential, or other exempt information that DOE would ated to disclose pursuant to the Freedom of Information Act?	لينها	\boxtimes
Α.	Organi	Jason St. Germain zation Official (Name and Title): <u>Annmarie L.Pacchia- PhD. VP, Research & Project Admin.</u>		
	Signat	ure: Grants & Cantracts, ORPA Date: 8/11/16		
	e-mail:	_sponsore@mskcc.org Phone: _646-227-3273		
В.	Option	al Secondary Approval (Name and Title);	rinnen, avienen ausaaaaa	
	Signati	ure: Date:		
	e-mail:	Phone:		

V.

Remainder to be completed by DOE

VI. DOE Concurrence/Recommendation/Determination:

Α.	DOE Project Director/Program Manager or Contract/Grant Management Specialist:	
	Has the Applicant completed the Form correctly?	No □
	Does an existing Generic Categorical Exclusion apply?	
	If yes, indicate:	
	Name and Title: Thy A. Maryer Grants Maragement Specialis	ţ
	Signature: Date: Date:	
В.	DOE NEPA Team Review:	
	Is the class of action identified in the DOE NEPA Regulations (Appendices A-D to	No
	Subpart D (10 CFR § 1021))? If yes, specify the class(es) of action: <u>B3,12</u> , <u>B3.6</u> , <u>B3.10</u> Name and Title: <u>Peter</u> Slebach, NCO	
	Name and Title: Peter Slebach, NCO	······································
	Signature: Van Subur Date: 9/12/2016	
C.	DOE Counsel (if requested):	
	Name and Title:	
	Signature: Date:	
_		

D. DOE NEPA Compliance Officer:

The preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR § 1021.400.



Action may be categorically excluded from further NEPA review. I have determined that the proposed action meets the requirements for Categorical Exclusion referenced above.

Action requires approval by Head of the Field Organization. Recommend preparation of an Environmental Assessment.

Action requires approval by Head of the Field Organization or a Secretarial Officer. Recommend preparation of an Environmental Impact Statement.

Comments/limitations if any:

NEPA Compl	iance Officer:	\sim 1	1			
Name: <u>P</u> e	Ar K	Siek	pach -			
Signature:	1 tim	R.L	about	 Date:	9/12/	2016
_	6				, ,	Page 5 of 4

Page 6 of 4

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



To Whom It May Concern:

In my absence, Jason St Germain, Director, Grants and Contracts will sign grants and related documents as an institutional official for Sloan-Kettering Institute for Cancer Research.

Annmarie L. Pacchia, PhD., Vice President Office of Research & Project Administration

Memorial Sloan-Kettering Cancer Center 1275 York Avenue, New York, New York 10021

NCI-designated Comprehensive Canter Center

.