

Example of filling out the form

(Form-1.5c)

Project No. (② 25HH999)

Radiation Generator Usage Plan(HIMAC) 25-1

Submission Date (③ 2025.2.3)

Dear radiation safety section chief in QST Chiba office,

I would like to use the radiation generator in HIMAC as follows, please approve.

Affiliation of the project representative ① QST Univ.

Name of the project representative ④ John Smith

Affiliation of the project staff in QST ③ Radiation safety section (extension ④ 9999)

Name of the project staff in QST ④ Taro Yamada

1. Purpose of using the radiation generator in HIMAC

Title of the project ⑤ Research on ~.

⑥ ☐ Continuation Project / ☐ New Project

⑦ Objective of the project

⑧ Experimental procedures

⑨

Name of the room used for the experiment*	Information on irradiated object (or irradiated animal)	Nuclides produced by activation and expected radioactivity		
⑩ <input checked="" type="checkbox"/> Medium energy beam irradiation room	⑩	Nuclide1 :	Radioactivity :	Bq
<input checked="" type="checkbox"/> Physical and general purpose irradiation room		⑪ Nuclide2 :	Radioactivity :	Bq
<input checked="" type="checkbox"/> Biological irradiation room		Nuclide3 :	Radioactivity :	Bq
<input checked="" type="checkbox"/> Secondary beam irradiation room		Nuclide4 :	Radioactivity :	Bq

* Place a check mark in the room where you will be using the room.

Please describe the area enclosed in the bold frame.

Date of receipt	/ /	Number of receipt	No. —
-----------------	-----	-------------------	-------

No.	item	How to fill out the form
①	Project No.	Please fill in the project number.
②	Submission Date	Please fill in the submission date of the form.
③	Information on the project representative	Please fill in the affiliation and name of the project representative.
④	Information on the project staff in QST	Please fill in the affiliation and name of the project staff in QST.
⑤	Title of the project	Please fill in the title of the project.
⑥	Continuation Project / New Project	Please put a “✓” in the appropriate section for continuation project or new project.
⑦	Objective of the project	Please provide a brief description of the project objectives.
⑧	Experimental Procedures	Please describe the experimental procedure.
⑨	Name of the room used for the experiment	Please put a “✓” in the name of the room to be used for the experiment.
⑩	Irradiated object (irradiated animal)	In the case of irradiated object, describe the material and size of the sample in as much detail as possible. In the case of irradiated animals, describe the name and number of animals.
⑪	Nuclides produced by activation and expected radioactivity	Please describe the nuclides produced by activation and expected radioactivity of the irradiated material (or irradiated animal).

2. Information on the irradiated object (or irradiated animal)			
Whether there is a carry-in or not	In case of Yes		
	Name of the storage room and storage period	Name of the disposal room	
⑫ <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	⑫	⑫	

Whether or not irradiated objects are taken out of the radiation-controlled area in HIMAC	In case of Yes		
	Name of irradiated object (or irradiate animal)	Where to transport the irradiated objects	How to transport the irradiated objects
⑬ <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	⑬	⑭	⑮

3. Information on radioactive waste	
Whether radioactive waste is generated or not	⑰ In case of Yes, check the radioactive waste details
⑯ <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<input checked="" type="checkbox"/> burnable / <input type="checkbox"/> Flame retardant / <input type="checkbox"/> unburnable / <input type="checkbox"/> animal <input type="checkbox"/> others ()

⑫	The presence or absence of irradiated object	Please put a “✓” in the appropriate section regarding whether or not irradiated materials (or irradiated animals) are brought into the radiation controlled area in HIMAC. If yes, please fill in the storage room and storage period.
⑬	Whether or not irradiated objects are taken out of the radiation controlled area in HIMAC	Please put a “✓” in the appropriate section regarding whether or not irradiated objects (or irradiated animals) have been removed from the radiation controlled area in HIMAC, and if so, please provide specific details regarding their destination and method of transportation.
⑭	Where to transport the irradiated objects	Please indicate the location of the irradiated material (or irradiated animals) to be transported
⑮	How to transport the irradiated objects	Please describe the method of transporting the irradiated material (or irradiated animals). If you are outsourcing it to a contractor, please provide the name of the contractor.
⑯	Whether radioactive waste is generated or not	Please put a “✓” in the appropriate section regarding the presence or absence of radioactive waste.
⑰	Radioactive waste details	Please put a “✓” in the appropriate section of the radioactive waste category and provide specific details.

4. Irradiation beam conditions

【Irradiating ions and energy】 (Place a check mark in irradiating ions and energy.)

Irradiating ion energy(MeV/u)				
Irradiating ion	Medium energy beam irradiation room	Physical and general-purpose irradiation room	Biological irradiation room	Secondary beam irradiation room
<input type="checkbox"/> He	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230	<input type="checkbox"/> 150	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230
<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430	<input type="checkbox"/> 135 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> N	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430		<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> O	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430		<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430
<input type="checkbox"/> Ne	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600	<input type="checkbox"/> 230 / <input type="checkbox"/> 400	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600
<input type="checkbox"/> Si	<input type="checkbox"/> 6	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600 <input type="checkbox"/> 800	<input type="checkbox"/> 490	<input type="checkbox"/> 100 / <input type="checkbox"/> 180 / <input type="checkbox"/> 230 / <input type="checkbox"/> 290 <input type="checkbox"/> 350 / <input type="checkbox"/> 400 / <input type="checkbox"/> 430 / <input type="checkbox"/> 600 <input type="checkbox"/> 800
<input type="checkbox"/> Ar	<input type="checkbox"/> 6	<input type="checkbox"/> 290 / <input type="checkbox"/> 400 / <input type="checkbox"/> 650	<input type="checkbox"/> 500	<input type="checkbox"/> 290 / <input type="checkbox"/> 400 / <input type="checkbox"/> 650
<input type="checkbox"/> Fe	<input type="checkbox"/> 6	<input type="checkbox"/> 500	<input type="checkbox"/> 500	<input type="checkbox"/> 500

【Number of irradiating ionic particles】 (Place a check mark in number of irradiating ionic particles.)

Number of irradiating ionic particles (pps)*				
Irradiating ion	Medium energy beam irradiation room	Physical and general-purpose irradiation room	Biological irradiation room	Secondary beam irradiation room
<input type="checkbox"/> He	<input type="checkbox"/> 2.0×10^{12}	<input type="checkbox"/> 1.2×10^{10}	<input type="checkbox"/> 1.2×10^{10}	<input type="checkbox"/> 4.0×10^7
<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.8×10^9	<input type="checkbox"/> 2.0×10^9	<input type="checkbox"/> 6.0×10^6
<input type="checkbox"/> N	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.5×10^9	<input type="checkbox"/> 1.7×10^9	<input type="checkbox"/> 5.0×10^6
<input type="checkbox"/> O	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 1.4×10^9	<input type="checkbox"/> 1.2×10^9	<input type="checkbox"/> 3.7×10^6
<input type="checkbox"/> Ne	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 7.8×10^8	<input type="checkbox"/> 8.5×10^8	<input type="checkbox"/> 2.6×10^6
<input type="checkbox"/> Si	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 4.0×10^8	<input type="checkbox"/> 4.4×10^8	<input type="checkbox"/> 1.3×10^6
<input type="checkbox"/> Ar	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 2.4×10^8	<input type="checkbox"/> 2.7×10^8	<input type="checkbox"/> 8.0×10^5
<input type="checkbox"/> Fe	<input type="checkbox"/> 1.0×10^{11}	<input type="checkbox"/> 2.5×10^8	<input type="checkbox"/> 2.5×10^8	<input type="checkbox"/> 8.3×10^5

*Number of irradiating ionic particles (pps) in the table is the maximum number of particles approved for use; the actual number of irradiating ionic particles available is less.

No.	item	How to fill out the form
⑮	Irradiating ions and energy	Please put a “✓” in the irradiating ions used and the applicable maximum energy in the project.
⑯	Number of irradiating ionic particles	Please put a “✓” in the number of irradiating ionic particles in the project.

Information on experimental participants

(*1)	(*2, 3)	Name	E-Mail address (*4)	Affiliation	Status within QST. (*5)
⑳	<input checked="" type="checkbox"/> <input type="checkbox"/>	John Smith	xxx@xxx.co.jp	QST Univ.	C

(*1) Among those who will actually participate in the project, please decide who will be responsible for representing the work group and place a check mark. This person may be different from the person who will be responsible for the project representative. If there will be a different person responsible for each machine time, please check all responsible persons.

(*2) Please circle those who have completed registration as a “Radiation Worker” in QST Chiba office.

(*3) Please Δ if you plan to register as a “Radiation Worker” in QST Chiba office.

(*4) Please fill in your e-mail address if you have one.

(*5) In QST Chiba office, please select the applicable category from the following and fill in the appropriate alphabet.

Please check with the project staff in QST to determine which category applies to you.

A: Retirees and fixed term employees in QST	F: Visiting Collaborative Researcher	K: others ()
B: Collaborative Researcher	G: Postdoctoral Fellow	
C: Visiting Researcher	H: Invited Researcher	
D: Cooperative Program Graduate Student	I: JSPS Research Fellow	
E: Trainee	J: Junior Researcher Associate	

※If you are not registered as a “Radiation Worker” in QST Chiba office by the day of the experiment, you will not be able to participate in the experiment even if your name is on the list of participants for this experiment.

No.	item	How to fill out the form
⑳	Information on experimental participants	Please include the experiment participant's name, email address, institutional affiliation, and status within QST.