

SAFETY, HEALTH, AND SECURITY COMMITTEE MEETING AGENDA AND MINUTES

ENVIRONMENTAL HEALTH AND SAFETY
WASHINGTON STATE UNIVERSITY
PULLMAN, WA 99164-1172
509-335-3041

See 2.12 for instructions or contact EH&S for assistance.

1. MEETING DATE October 28, 2025	2. CAMPUS, COLLEGE, AREA, DEPARTMENT, PROGRAM, BUILDING, OR WORK UNIT COMMITTEE OR MEETING NAME Nuclear Science Center		
3.a. ELECTED CHAIR NAME Zachariah Heiden	3.b. ELECTED CHAIR E-MAIL ADDRESS zachariah.heiden@wsu.edu	3.c. ELECTED CHAIR TELEPHONE 509-335-0936	

4. MEMBERS (In the designation column, indicate "E" for employee, "S" for student, "M" for management representative.)

NAME	DEPARTMENT	DESIGNATION	PRESENT	ABSENT
Zachariah Heiden	Nuclear Science Center	E	X	
Corey Hines	Nuclear Science Center	M	X	
Clark Filip	Nuclear Science Center	E	X	
Konstantine Geranios	Nuclear Science Center	E	X	
Billy Schmuck	Nuclear Science Center	E	X	
Bryan Chang	Nuclear Science Center	S		X
Ethan Irish	Nuclear Science Center	S	X	
Liane Moreau	Chemistry			X

5. GUESTS

NAME	DEPARTMENT	TITLE

AGENDA AND MINUTES (Attach additional sheets as needed.)

6. INCIDENT REPORTS AND SUPERVISOR'S ACCIDENT INVESTIGATION REPORTS RECEIVED (If yes, describe. Include recommendations to prevent future incidents and accidents. See SPPM 2.24 and 2.26.)	☐ YES	☒ NO
Discussed progress on addressing the four open safety concerns brought to our attention. One (#2236) is waiting for a new crane, #5266 is waiting for an update from Dr. Guo, one (from 7/3/24) is being worked on by Andersen Construction, #9076 is awaiting an update from Dr. Guo/Guo lab. The Guo Lab was contacted on November 12th (copying Chemistry Chair, Eric Roalson) to request an update on the open safety concerns. A pdf of the email sent and Dr. Guo's response are included in the attachments. Safety concern #9076 was dealt with on November 13th. See attached resolution log for more details. Scheduled a meeting with Eric Roalson on November 20th, where the Guo group safety concerns were discussed, and the current safety concern and resolution log was updated to reflect the outcome of the discussion. Sent a message to RSO requesting an update in writing on the status of the glovebox in Dodgen 121 to include in minutes. The Radiation Safety Office responded on December 18th, and a pdf of the message received from RSO deeming the glovebox in Dodgen 121 as safe is included as an attachment to these minutes. Safety concern #5266 was closed, based on RSO's assessment of Dr. Guo's glovebox.		

SAFETY, HEALTH, AND SECURITY COMMITTEE MEETING AGENDA AND MINUTES (cont.)

Page 2 of 2

AGENDA AND MINUTES (cont.) (Attach additional sheets as needed. See SPPM 2.12 or contact EH&S for assistance.)

7. ACCIDENT PREVENTION PLAN REVIEW, UPDATES, AND IMPROVEMENTS

(Describe which part of the unit's accident prevention plan was evaluated. Include any recommendations to the administrator for improvement. See SPPM 2.10.)

N/A

8. SAFETY INSPECTIONS PERFORMED? (A minimum of one inspection per year is required for all workplaces.)

(If yes, attach a copy of each completed safety inspection checklist. See SPPM 2.50.)



YES



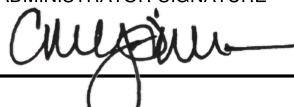
NO

9. SAFETY, HEALTH, AND SECURITY TOPICS DISCUSSED AND PROMOTED (Describe how each topic was promoted.)

Safety inspections for Dodgen 101, 110, 214, and 221 were completed.

10. OTHER SAFETY, HEALTH, OR SECURITY TOPICS DISCUSSED

- Elections were completed, with Konstantine Geranios added to the committee as the NSC Research staff representative. Zach Heiden remained as chair and will replace Liane Moreau as the faculty representative on the Level 4 Safety Committee.
- There was discussion about asking CAS to help get Dr. Moreau's glovebox out of Dodgen. The glovebox was removed on December 12th.
- There was discussion to add a sign on to Dr. Guo's new glovebox in B21 saying not to operate until approval by NSC. A sign was added to the glovebox window.
- There was a suggestion to go through EHSA at the next meeting.

SUBMITTED BY NAME		DATE SUBMITTED TO ADMINISTRATOR
Zachariah Heiden		12/26/25
ADMINISTRATOR NAME AND TITLE	ADMINISTRATOR SIGNATURE	DATE
Corey Hines, Director		7/14/2026

Route copies of signed minutes as applicable:

Level 3 SHS committees:

Route to Level 2 Steering Committee, Level 4 SHS committee chairs, and Level 3 elected co-chair.

Level 4 SHS committees:

Route to Level 3 elected co-chair and Level 4 chair.

Level 4 work unit safety meetings:

Route to Level 4 SHS committee chair and work unit lead.

Level 4 Safety Committee Meeting Agenda

October 28th, 1:00 pm, Dodgen 218

- 1) Reported Safety Concerns Update
- 2) Level 4 Safety Committee Elections
- 3) Safety Inspections
- 4) Other Safety, Health, and Security Topics
 - a. NUCS Biosafety Renewal: Dodgen 114, Fulmer B3, and Fulmer 151
 - b. Guo glovebox



RE: New Safety Concern Submission

From Sullivan, John D <johns@wsu.edu>

Date Thu 12/18/2025 8:43 AM

To Heiden, Zachariah M <zachariah.heiden@wsu.edu>; McGehee, Rey Dean <rmcgehee@wsu.edu>

Cc Guo, Xiaofeng <x.guo@wsu.edu>

Hello,

Brayden George surveyed the exterior of the glove box and reviewed documentation generated by Prof. Guo's students. The chemistry department is aware their equipment's contamination and that it is fully contained within the enclosed space. It is found to have no safety risk under normal conditions. We let Prof. Guo's students know to contact us before further decontamination or use of the glove box to go over any plans.

Kind Regards,

**John Sullivan**

Health Physicist
Radiation Safety Program
Office of Research Assurances
PO Box 641143
Washington State University
Pullman, WA 99164-1143
Office: 509-335-4221
Email: johns@wsu.edu

From: Heiden, Zachariah M <zachariah.heiden@wsu.edu>

Sent: Tuesday, December 16, 2025 11:29 AM

To: McGehee, Rey Dean <rmcgehee@wsu.edu>; Sullivan, John D <johns@wsu.edu>

Cc: Guo, Xiaofeng <x.guo@wsu.edu>

Subject: Fw: New Safety Concern Submission

Hi John and Rey,

Can you please provide us something in writing on the current status of the glovebox in Dodgen 121? I would like to get this in the Level 4 Safety Committee Notes so I can close the safety concern on the glovebox.

Thank you,
Zach

**Zachariah Heiden**

ASSOCIATE DIRECTOR

Nuclear and Chemical Science (NUCS) Core Facility &

Nuclear Science Center

Washington State University

Direct Office: 509-335-0936 | Front Office: 509-335-8641

Email: zachariah.heiden@wsu.edunsc.wsu.edu

From: Guo, Xiaofeng <x.guo@wsu.edu>**Sent:** Wednesday, November 12, 2025 10:45 PM**To:** Heiden, Zachariah M <zachariah.heiden@wsu.edu>; Roalson, Eric <eric_roalson@wsu.edu>; Yaw, Natalie <natalie.yaw@wsu.edu>; Hallikainen, Hannah <hannah.hallikainen@wsu.edu>; Liu, Juejing <juejing.liu@wsu.edu>**Cc:** Hines, Corey <cchines@wsu.edu>; Filip, Clark J <clark.filip@wsu.edu>; Sullivan, John D <johns@wsu.edu>**Subject:** Re: New Safety Concern Submission

Hi Zach,

As you may have known that Dodgen 121 has not been actively used since 2019 March after the Pu experiments. Last year we have surveyed the box very thoroughly and identified that the box was contaminated before we the experiment, that are legacy contamination from Ken Nash's lab which was not our responsibility to clean them. We had no prior knowledge when we received the box. We need to have a meeting to discuss this matter.

Regarding of the overflowing trash, since the lab has not been actively used, we were not aware of whether that was due to staff moving things around inside the lab or not without our awareness. However, I included my students here to identify whether they were related to last year survey.

Since we have not used this lab for quite a while, I don't think items identified by you are related to any new activities recently, and if so, probably not from our group's activities because no research was done in that lab for 5 years at all.

I will let our members to respond to your questions (some we may have already done in the past) within the next 24 hours.

Hi Natalie, Hannah, Juejing,

Please take this as priority if you can and responds to Dr. Heiden in letter of our response, and we should also start taking actions if we could perhaps with help of RSO by Friday. Also please attach the survey results of the box. Thank you all so much.

Best,
Xiaofeng

From: Heiden, Zachariah M <zachariah.heiden@wsu.edu>
Date: Thursday, November 13, 2025 at 1:44 AM
To: Roalson, Eric <eric_roalson@wsu.edu>, Guo, Xiaofeng <x.guo@wsu.edu>
Cc: Hines, Corey <cchines@wsu.edu>, Filip, Clark J <clark.filip@wsu.edu>
Subject: RE: New Safety Concern Submission

Dear Eric and Xiaofeng,

The safety concerns in Dodgen that have been brought to your attention in August still have not been dealt with. Please see the attached pdf for a list of the safety concerns that are still open.

During a weekly survey, we observed additional issues in Dodgen 121. We have found an unknown powder from a vial on the floor next to a rad glovebox (see attached picture), overflowing rad trashes (see attached picture), and trash on the floor throughout the laboratory, barely allowing someone to enter the room. My staff do not feel safe entering the room to do their weekly contamination surveys.

Please address these concerns in the next 24 hours, otherwise NSC staff will intervene on Friday morning (November 14th) and charge Dr. Guo for our time and supplies used to take care these safety concerns.

Please let me know if you have any questions.

Thank you,
Zach



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nsc.wsu.edu

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Sent: Thursday, August 28, 2025 8:53 AM
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Cc: Hines, Corey <cchines@wsu.edu>; Filip, Clark J <clark.filip@wsu.edu>
Subject: Re: New Safety Concern Submission
Importance: High

Hi Xiaofeng,
Could you prioritize addressing these safety concerns at Dodgen? Please inform me of the actions taken and when this is resolved.
Thanks,

Eric

--

**Eric H. Roalson**

Interim Chair, Department of Chemistry
Professor of Biological Sciences
Director, Marion Ownbey Herbarium
School of Biological Sciences
Washington State University
Chemistry Phone: 509-335-7620
Biology Phone: 509-335-7921
Email: eric_roalson@wsu.edu

From: Heiden, Zachariah M <zachariah.heiden@wsu.edu>**Date:** Thursday, August 28, 2025 at 8:50 AM**To:** Guo, Xiaofeng <x.guo@wsu.edu>, Roalson, Eric <eric_roalson@wsu.edu>**Cc:** Hines, Corey <cchines@wsu.edu>, Filip, Clark J <clark.filip@wsu.edu>**Subject:** FW: New Safety Concern Submission

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Can you both please help in addressing these open safety concerns? We have the WSU president coming for a tour of Dodgen in about a month and we will be unable to highlight Professor Guo's lab spaces unless we deem these workspaces safe for tours.

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From: or.nsc@wsu.edu <or.nsc@wsu.edu>**Sent:** Thursday, August 28, 2025 8:42 AM**To:** Heiden, Zachariah M <zachariah.heiden@wsu.edu>; Hines, Corey <cchines@wsu.edu>; Filip, Clark J <clark.filip@wsu.edu>**Subject:** New Safety Concern Submission

Safety Concern #9296

Building Location of Safety Concern
Dodgen Research Facility
Location of Safety Concern (e.g. Room Number)
B21
Description of Safety Concern
There is a sign saying that "Pu Materials are Inside" on a random desk outside of the Guo lab space (see pictures). It is unclear if the Pu materials are in the plastic bag next to it in an unsecured location or somewhere else.
Picture(s) of Safety Concern (if available)
• 1000006788-2.jpg • 1000006787.jpg



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Eric

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Subject: New Safety Concern Submission

Safety Concern #9296

Building Location of Safety Concern

Dodgen Research Facility

Location of Safety Concern (e.g. Room Number)

B21

Description of Safety Concern

There is a sign saying that "Pu Materials are Inside" on a random desk outside of the Guo lab space (see pictures). It is unclear if the Pu materials are in the plastic bag next to it in an unsecured location or somewhere else.

Picture(s) of Safety Concern (if available)

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- [1000006787.jpg](#)



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 5 attachments (14 MB)

Open Safety Concerns Guo Lab Spaces as of 11-12-25.pdf; Solid Spill in Dodgen 121.jpg; Overflowing Rad Trash Boxes in Dodgen 121.jpg; Overflowing trash and Chemicals near sink in Dodgen 121.jpg; Overflowing trash in Dodgen 121.jpg;

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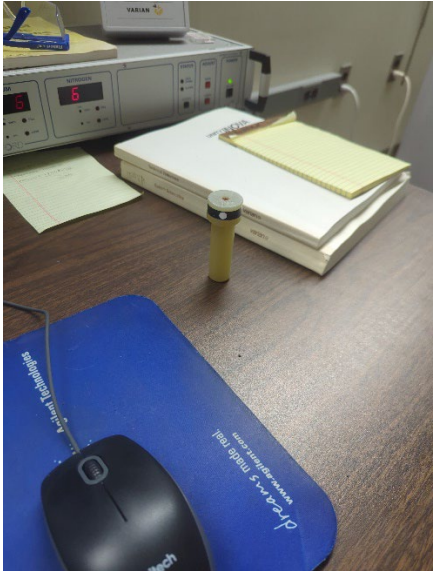
SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
2/4/2023 1873 DODG-5	Water on the floor near the toilet and has been there for several days.	The water was coming from a leak in the toilet. The water was cleaned up and a work request put in with WSU facilities services (2023-018578). The repairs were completed on 3/2/2023.
3/15/2023 2098 FULM-B3	No eyewash or safety shower is available in Fulmer B3. Work request for quote has been submitted.	Work request 2023-020047 under "estimating". Estimated at \$16,000. A portable eyewash has been ordered and has arrived. Portable eyewash was installed on February 13th, 2024 
3/17/2023 2099 FULM-40A	The faucet in the sink is leaking and the cold water valve was tightened so much that it cannot even be turned to be able to turn it on. Only hot water is functional out of the faucet currently. A work request has been submitted.	Work request 2023-020265 status is "open." New WR 2023-022486 on 4/17/2023. New WR 2023-022780 on 4/21/2023. FacOps will be coming after finals week to put in a new faucet. Completed 6/26/23.
3/17/2023 2114 DODG-201 Loading Dock	A reactor operator mentioned in passing that the uneven surface of the 201 loading dock area causes the pallet jack to tip a bit which has caused concern for how far the barrels on the pallets tip.	(3/22/2023) A training module "Pallet Jack Safety Training: NSC Safety Training Series" has approved by senior staff. Staff training on pallet jack safety is complete (5/2023).
3/17/2023 2115 DODG-201/106 IX PIT	Change out of the ion exchange resin requires the floor hatches to the pit to be open. in order to change out the resin, work has to be done within close proximity of the openings and there is no fall protection barriers just warning barriers on either end of the north pool room walkway where the pit is located.	Sarah Greer of WSU Occupational Health and Safety is helping determine the best solution and address the concern. Options include wearing harnesses, removable barriers, use of safety watch. Discussed during 3/24/2023 senior staff meeting and will have new tooling made that will enable closure of the IX lid without the pit floor cover open. 4/14/2023: Reactor Supervisor will design, test, and qualify procedure change for IX column changeouts. 9/22/2023: Hydrfab Northwest INC is currently designing and fabricating the tool. 10/18/2023: Received tool from Hydrfab. Have not been able to fully test its functionality.
3/21/2023 2123 DODG-201	At my last job in New York, they had outlined electrical safety standards in a corporate safety manual for working on switchboards and terminal boxes. That was New York and I don't know what exactly required them to have those electrical safety standards. As much as I don't want to add further	Discussed during 3/24/2023 senior staff meeting. Reactor supervisor will delegate to operations staff with Beadle as lead to develop hold points and safety measures to be employed when working on the control console.

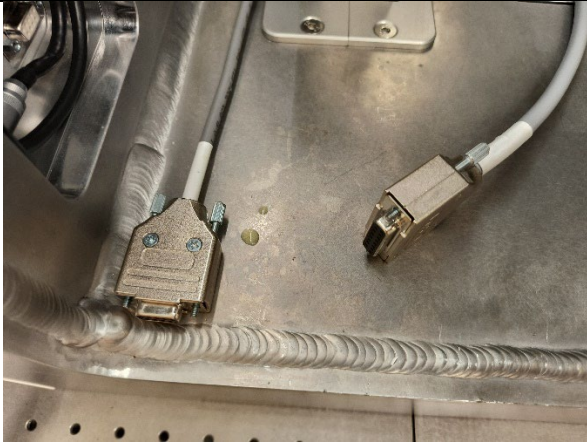
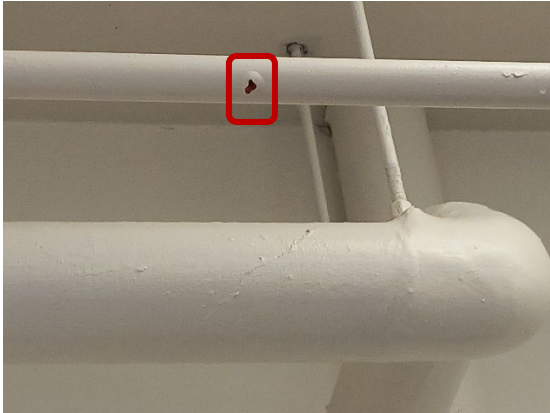
SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
	restrictions to working on the reactor console, electrical safety is worth looking into to see if there are any that are required for the facility.	Zach Heiden will coordinate and develop electrical hazard procedures for instrumentation at NUCS. Zach has met with Sarah Greer of WSU Occupational Health and Safety No electrical hazards were identified in NUCS. 10/21/2024: Waiting on a draft section from Bryan Chang to put into the Facility Safety Procedures. 2/17/25: A draft section has been placed into the Facility Safety Procedures and is awaiting vote by Level 4 Safety Committee. 8/28/25: A Total Health and Safety Plan including a section on electrical safety has been approved by the Level 4 Safety Committee
3/31/2023 2236 DODG-201	The safety latch on the overhead crane is missing. This is being reported now so that it can be tracked by the NSC Safety Concern Log.	Work request 2023-015411 Submitted 1/5/2023 Does a manual exist for part numbers? Status is "open." We received NEUP funding to replace the crane, the concern will remain open as long as the crane is in use. 8/28/25: The NEUP grant received a no cost extension through Sept 2026. Andersen Construction did a walk-through with the crane people for a crane replacement.
4/7/2023 2265 DODG-ROOF	Exhaust stack on roof from fume hood is missing a guide cable. Stack is not stable. Located on NW corner on roof.	Work Request 2023-022029 submitted, status is "work complete."
5/3/2023 2375 DODG-101	Clogged sink.	Work Request Number: 2023-024030 Submitted: 5/3/2023 12:26 PM Completed: 5/22/2023
5/10/2023 2412 DODGEN	Cooling tower fan is noisy, possibly a bearing going out. Fan still operational.	This was determined to be solely a maintenance issue and not a safety concern and will be handled accordingly.
8/4/2023 2900 DODG-101	There is a GM counter on the bench that is plugged into an outlet with an AC adapter. That AC adapter has exposed wiring and is not safe, and is not appropriate to use in that condition for safety-related functions.	The detector has been removed from service until it has a new power cord. Another GM has been put in 101 and there is already a hand and foot monitor in there for personnel use.

SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
9/18/2023 NUCS- Fulmer Varian 500	Spinner has broken glass inside. I have left the spinner to the right of the computer monitor. 	User went to use the machine and found it left in that state. Further investigation needed to determine more information on the broken sample, what potentially caused it, and why it was left as it was. Spinner determined to be non-rad. Broken tube and glass removed. Machine is fully functional. A message about broken NMR tubes in the NUCS Core Facility was sent out to users.
9/29/2023 NUCS- Fulmer Bruker 500	An unlabeled Eppendorf tube containing an unknown material was found at the Bruker 500. 	Eppendorf tube determined to be non-rad. Eppendorf tube removed. Machine is fully functional. A message about bringing samples and completing experiments in the NUCS Core Facility was sent out to NMR users.
10/9/23 DODG-114	An unknown non-radioactive yellow liquid was found in the sample chamber of the SAXS.	The yellow liquid was determined to be non-rad with a GM. The yellow liquid was cleaned up with isopropanol on a Kim wipe. The area was also wiped with a wet Kim wipe and allowed to dry. Machine is fully functional. A message about cleaning up spills in the NUCS Core Facility was sent out to SAXS users.

SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
		
10/25/23 DODG- First Floor Hallway	While workers were moving a pallet of cargo in through the first floor loading dock using a motorized pallet jack, the load hit an electrical box mounted on the North hallway wall. The box broke open and exposed 120V AC wiring inside.	NSC staff responding couldn't find a breaker for those components, and so left the area cordoned off until a FacOps electrician could fully render safe the area, about 45 minutes later. The current issue is fully resolved, but future safety inspections should look for electrical boxes or conduit protruding from the wall in loading/unloading areas that could be damaged by moving cargo.
10/30/23 DODG-150	Water dripping from pipe onto floor near TV and large table. 	Work Request submitted (#2024-009395). Was repaired 11/1/23 with a sleeve over the leak area. Work request (2024-009395) was closed by FacOps on 7/26/24. Sleeve still remains  New pipe was put in. Work Request closed 12/4/24
11/17/2023 DODG-114	While conducting a building evacuation test, a researcher in 114 heard a garbled voice on building intercom during the warning for the upcoming test. Further, researcher did not hear the building evacuation siren in 114.	11/22/2023 – Building evacuation alarm was tested again. Employees systematically went to each room in the building, closed the door and assessed whether the alarm could adequately be heard, giving consideration to any extra noise produced by equipment in the room, if it were running. Results were tabulated on building maps. 12/22/2023 – Facility Operations responded to work request and adjusted 1 st floor hallway loudspeaker. Evacuation alarm is now audible where it was not previously.
1/3/2024 DODG-101	Ceiling mounted HVAC unit is leaking onto lab equipment. Condensation is also accumulating on the ceiling and dripping onto the floor and lab bench work surfaces. While the heater was being removed, Fume hood #1 lighting was damaged and broken glass fell into fume hood. Fume hood fan also stopped working.	Facilities is replacing the unit. The replacement date is TBD. Work Request #2024-015258 submitted. July 23, 2024: Heater is in 101 and is waiting for prep work by facilities before install.

SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
		7/26/24 FacOps changed out the fume hood lighting with LEDs.
1/29/2024 DODG-101	Water pressure to 101 eyewash station is inadequate to flush eyes in an emergency. 	1/29/2024 - Work request 2024-016117 submitted and completed
2/12/24 DODG-121 #5266	Suspected contamination of the glovebox in Dodgen 121 with plutonium. Also, a suspected hole in one of the gloves on the glovebox. 	Draft memo sent to EH&S and RSO. EH&S and RSO worked with Dr. Guo and his students to clean it out. Are about 25% of the way completed as of July 23 rd , 2024. Met with Guo on February 26 th , 2025, about current and future gloveboxes. Have not heard anything after meeting. Current picture as of 8/26/25:  No change as of 10/28/25.
4/11/2024	Tripping hazards in the Penthouse following Reactor Ventilation System Replacement.	The tripping hazards are structural to the building and cannot feasibly be removed. APEX spray painted the trip hazards orange.
4/11/2024	Motor/belt guard of Room 114 exhaust fan rattled loose in Penthouse exposing rotating motor shaft and belts.	Work request 2024-021639 submitted. Motor guard replaced. Rotating shaft still exposed. Work request 2025-001930. Rotating shaft guard installed on 7/24/2024.
7/3/2024	201/101A/IX Pit floor hatches installed with structural material being removed by Facility Services for fitment of floor hatches. No gas shocks on the floor hatches as requested. Concern for leaning over the floor openings and floor hatches not being weight rated.	EH&S and Facility Services were on-site with NSC management to fully understand the safety concerns and develop paths forward to have the floor hatches modified or replaced so the fall concern and weight rating of the floor hatches is resolved.
8/5/2024	Condensation dripping from control room ceiling in close proximity to the console.	Buckets placed under dripping AC ductwork and condensate lines temporarily. AC blown out to allow for condensate drainage by FacOps.

SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
11/18/24 Fulmer B3 #7356	A user left the single crystal XRD filling liquid nitrogen into the cryodewar unattended. The vent tube from the cryogen dewar was also venting on electronics. NUCS Core Facility protocols indicate that all cryogen fills within the facility must not be left attended. The filling of the dewar was shut off and the user notified about the venting of cryogen on electronics and the absence during the fill.	User was retrained on the use of the single crystal X-ray diffractometer on 11/20/24.
11/18/24 Dodgen 114 #7360	Sudden metallic or plastic burning like smell in the room.	Dodgen 114, 116, 112, 110, 119, 117 were all investigated. The odor was the strongest in 114. Removed all of the panels on the SAXS and investigated the easyXAFS. Could not find the source of the odor. The odor dissipated and did not return when reinvestigated one hour later. Possibly due to FacOps work in the building. Has not occurred since, considered closed.
11/18/24 Fulmer B3 #7361	Cannot log out of simple in/out on NMR computer 	Restarted browser to provide users access to Simple In/Out. Retraining on the single crystal X-ray diffractometer with Vincent on 11/20/24
1/16/25 Dodgen 114 #7525	A user was measuring radioactive samples at the easyXAFS and not following the radioactive sample analysis procedure (no lab paper or radioactive sticker labels). 	The user was called and returned to Dodgen about an hour after the phone call to remedy the situation.
2/5/25 Fulmer B3 #7644	One of the high pressure dewars was extremely iced up, hissing, and a small amount of liquid nitrogen was dripping out the liquid tap. I tapped the handle with a wrench and tightened it down with a gloved hand. The handle turned a little bit and the leaking and hissing stopped. Issue appears to be resolved, the dewar is currently sitting about 105psi.	Tightened the liquid valve to stop leak.

SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
		
2/27/25 Dodgen 101 #7856	Rm 101 eyewash station below the shower has low pressure.	A work request has been submitted. Eyewash piping was repaired and the eyewash under the shower was removed with the sink eyewash remaining.
3/6/25 Fulmer B3 #7958	The Rad NMR tube sample holder was placed in the case with the non-rad NMR tube holders. 	A pencil case is now used to store the Rad NMR tube sample holder and depth gauge.
5/6/25 Dodgen 101 #8480	SW fume hood in 101 has no exhaust flow.	Work request 2025-022608 submitted to repair the exhaust fan. The exhaust fan was repaired and proper flow was re-established.
7/21/2025 Dodgen 21 #8964	There are two concerns related to gas bottle use and storage: 1: An attached regulator and cylinder appears to be tagged out with duct tape. Every possible scenario for this type of tag out is concerning: is the regulator damaged - if so, why is it still on the cylinder? Is the regulator stuck - if so, why hasn't help been sought?, Is the cylinder not in use (which is obviously the case) then why is a regulator on it at all? Is there cylinder damage? If so, then why is it in the building at all? 2: Very few, if any, of the cylinders are chained with sufficient tension to be certain that they cannot fall over. There may be sufficient slack for a cylinder to fall/slide. A quick test was made and the cylinder leaned to a sharp angle before being slowed to a full stop. I do not believe they are an immediate threat as the chains will reduce falling energy to a minimal level, but they do not meet the definition of secure in the WSU SPPMs or WACs. Only one picture was allowed to be attached, but there is	The Guo Group has been notified. Graduate students have taken steps to properly secure the gas bottles individually and communication with Central Stores to fix the damaged regulator. The damaged regulator was removed and the cylinders have been chained up appropriately.

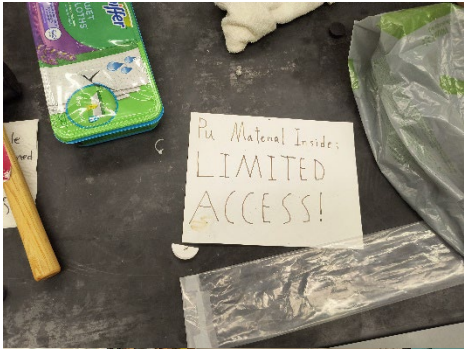
SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
	also a loosely chained flammable cylinder on the east side of the room. This is urgent but appears to be in a metastable state. Correction may be performed through regular channels rather than on an emergency basis by non-lab personnel. 	
7/25/25 Dodgen 21 #9008	Unsealed Rad Material is sitting on the lab bench. It is in a designated rad area, but is just in the open, unsealed and unlabeled. Verified with a GM that it was radioactive. 	The Guo Group has been notified and the space was cleaned up. An email went out to the Guo group on 7/31/25 asking them to implement a tray system for RAM work. Picture of Rad area on 8/26/25:  Picture of Rad area on 10/3/25

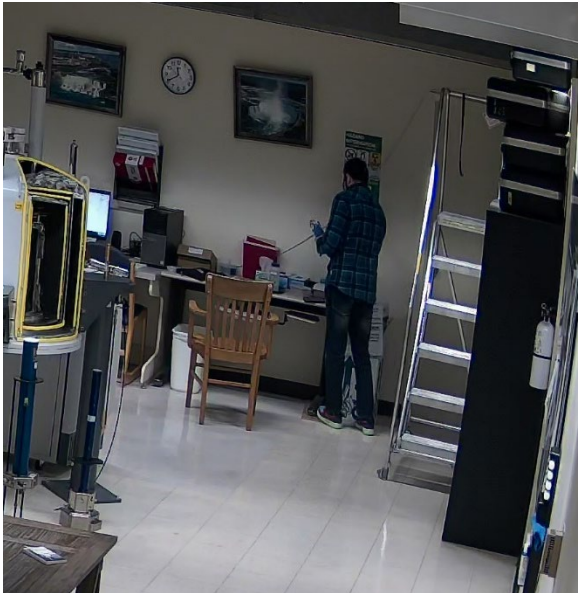
SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
		
8/4/25 Dodgen 121 #9076	There is an open (uncapped) bottle of nitric acid with something hanging out of it (not clamped) with no labels (see picture). 	The Guo Group has been notified of the safety concern at 3:30 pm on 8/4/25. The Guo group removed the items in the nitric acid, but the nitric acid bottle remained on the counter and did not address any of the items of concern listed in the message to the Guo group. Picture of area on 8/26/25:  No change as of 10/28/25.
8/13/25 Fulmer B3 #9160	Liquid N2 dewar supplying house N2 had liquid N2 coming out of liquid dispenser port.	Liquid dispensing valve was tightened, and liquid stopped coming out.

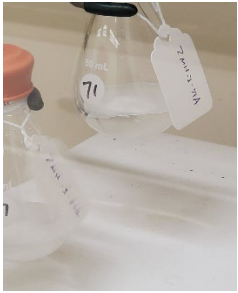
SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
		
8/28/25 Dodgen B21 #9296	There is a sign saying that "Pu Materials are Inside" on a random desk outside of the Guo lab space (see pictures). It is unclear if the Pu materials are in the plastic bag next to it in an unsecured location or somewhere else.  	The sign was removed on 8/28/25 and we were assured by Dr. Guo that no Pu work has been done since 2019.
9/26/25 Fulmer B3	Unlabeled nmr sample within locker.	A message was sent out to users of the NUCS Core Facility. The sample was gone by the next day.

SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
		
10/9/25 Fulmer B3 #9656	A user was found removing unknown NMR tubes from the broken glass container near the DLS. 	Ethan told him to not remove the samples from the facility or the glass waste. A message was sent out to users of the NUCS Core Facility telling them to not remove unknown materials from waste containers.
10/10/25 Dodgen 214	Chemical synthesis or sample processing appears to be occurring in the Dodgen 214 fume hood where there is no access to a safety shower. (The closest shower requires exiting the lab and entering a different lab which is always locked). Furthermore, the samples under preparation are not labeled in a meaningful way. Research staff was notified at least 24 hours previous to this report on 10/9/2025 regarding the lack of labeling but it has not yet been addressed.	The samples were properly labeled, as indicated in the Chemical Hygiene Plan in Dodgen 214. The Chemical Hygiene Plan for Dodgen 214 was updated to address any confusion about labeling of samples. WSU EH&S informed us that a safety shower is only needed when there is potential for major portions of an employee's body to contact corrosives, strong irritants, or toxic chemicals (WAC 296-800-15030). Those chemicals are not being used in Dodgen 214, so the eyewash with drench hose capability will suffice.

SAFETY CONCERN & RESOLUTION LOG

ID INFO	SAFETY CONCERN	STATUS / RESOLUTION
		

101

Laboratory Inspection Checklist

Inspector:	Konstantine Geranius	Date:	10/27/25
Inspector phone:	509-263-9571	Accompanied by:	
Inspector email:	kgeranius@wsu.edu		

Laboratory Information	
Department	Nuclear Science Center
Principal Investigator (PI)/Laboratory Instructor	Zachariah Hiden
PI telephone number	509-335-8641
PI e-mail address	Zachariah.Hiden@wsu.edu
Building	Dodson
Laboratory room number(s)	101
Lab Safety contact person	Clark Filip
Lab Safety contact telephone number	509-335-1669
Lab Safety contact e-mail address	Clark.Filip@wsu.edu

☒ Radiation	☐ Lasers (Highest Class: _____)	☐ Biosafety 2 or greater	☐ Animals	☐ Hazardous Drugs
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Chemical Classes Present	
☒ Particularly Hazardous Substances (select carcinogens, acute toxins, reproductive toxins)	☐ Flammable Chemicals
☐ Regulated Carcinogens	☐ Flammable Gases
☐ Pyrophorics	☐ Toxic Gases
☐ Water Reactives	☐ Explosive Chemicals
☐ Reducing Agents	☐ Peroxide Formers
☐ Oxidizers	☐ Corrosive Chemicals

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Laboratory Safety Manual (LSM): Personnel know how to access online LSM on EHS website	
☒	☐	☐	☐	Chemical Hygiene Plan (CHP) accessible and personnel read & signed document	
☒	☐	☐	☐	Standard Operating Procedures (SOP) accessible; personnel trained on them	
☒	☐	☐	☐	Information on the contents of WAC Chapter 296-828 "Hazardous Chemicals in Laboratories" and where to find a copy are provided to employees	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	Laboratory floor plan showing availability of safety equipment	
☒	☐	☐	☐	Lab personnel have been trained on the hazards and protection measures of chemicals they work with	
☐	☐	☐	☒	Employees subject to Bloodborne Pathogens have attended training	
☐	☒	☐	☐	Training records are available for PPE; hazard assessment documents present	
☐	☒	☐	☐	Dangerous (hazardous) chemical waste training documented	
☒	☐	☐	☐	Inspections performed at least annually and documented by PI or supervisor	
☒	☐	☐	☐	Medical/exposure monitoring performed and documented when required (e.g. formaldehyde)	

Hazard Communication and Signage					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	SDSs are accessible (hard copy or electronic)	
☐	☒	☐	☐	Current chemical inventory available	
☒	☐	☐	☐	Laboratory Signage Program sign posted, updated annually	
☐	☐	☐	☒	Signage used for Biosafety facilities	
☒	☐	☐	☐	Chemical storage cabinets labeled (e.g. flammables, corrosives, etc.)	
☐	☐	☐	☒	Refrigerators/freezers labeled with food/drink specifications	
☒	☐	☐	☐	Laboratory sink water faucets and eyewash stations are labeled (if required) "CAUTION: Non-Potable Water. DO NOT DRINK."	
☐	☐	☐	☒	Chemical containers (primary & secondary) labeled per HazCom requirements, no conflicting labels	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Emergency Information and Equipment					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Emergency assistance/contact information posted in laboratory	
☒	☐	☐	☐	Safety showers, eyewash stations, and drench hoses are available within 10 seconds and 50 feet of the chemical hazard with no obstructions in the travel path (e.g. steps, doors without crash bars)	
☒	☐	☐	☐	Eyewash stations and drench hoses are activated weekly (Do not activate shower unless a true emergency)	
☒	☐	☐	☐	Areas around emergency washing equipment kept clear (e.g. Showers must have 16 inches clearance in each direction, eyewash units do not have glassware around them)	
☒	☐	☐	☐	First-Aid Kits present and properly stocked (contents not outdated)	
☒	☐	☐	☐	Laboratory Spill kit properly stocked and accessible, spill procedures known	

Personal Protective Equipment (PPE)					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Closed toe shoes and long pants worn by laboratory personnel	
☒	☐	☐	☐	Laboratory coats properly selected and worn	
☒	☐	☐	☐	Gloves properly selected and worn	
☒	☐	☐	☐	Proper eye protection worn (e.g. goggles must be worn for splash protection)	
☒	☐	☐	☐	Adequate/appropriate PPE available (e.g. UV/IR glasses, face shields, lab aprons, cryogenic gloves)	
☒	☐	☐	☐	Personnel enrolled in Respiratory Protection Program when required	
☒	☐	☐	☐	Sink, soap and towels available for hand washing	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Fire Safety					
Y	N	S	NA	Inspected	Comments
☐	☐	☐	☐	Fire extinguishers present, functional, properly located, visibly signed, and accessible (not blocked)	
☐	☐	☐	☒	Labs where combustible metals are present have a Class D extinguisher	
☒	☐	☐	☐	Storage clearance from ceiling is 18 inches when sprinklers present and 24 inches without sprinklers	
☒	☐	☐	☐	Excess combustible materials cleared away (e.g. paper, garbage, etc.)	

Housekeeping					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Aisles/walking paths not blocked (24" minimum width)	
☒	☐	☐	☐	Means of egress/emergency exits/corridors not blocked (36" minimum width)	
☒	☐	☐	☐	Laboratory doors kept closed	
☒	☐	☐	☐	Spills are cleaned up promptly (provided spills can be safely cleaned up in under 15 minutes wearing normal PPE)	
☒	☐	☐	☐	Minimal floor chemical storage, adequate safety cabinetry, secondary containment and work space	
☒	☐	☐	☐	Chemical containers on floor are in secondary containment	
☒	☐	☐	☐	No evidence of food, drink or smoking	
☒	☐	☐	☐	Slip, trip and fall hazards minimized	
☒	☐	☐	☐	Minimal glassware on bench top, in sinks	
☒	☐	☐	☐	Minimal glassware in fume hood	
☒	☐	☐	☐	Proper sharps disposal and sharps containers less than ¾ full	
☒	☐	☐	☐	Proper disposal of glass waste	
☐	☐	☐	☒	Biohazardous waste properly stored	
☐	☒	☐	☐	Laboratory environment safe for custodial services to enter	
☒	☐	☐	☐	No fabric/upholstered furniture/chairs	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Fume Hoods and Ventilation					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Fume hoods certified within 1 year	
☒	☐	☐	☐	Proper sash height indicated	
☒	☐	☐	☐	Sash down when not in use	
☐	☐	☐	☒	Sash stoppers functional when present	
☒	☐	☐	☐	Hoods have adequate work space, free from excessive storage and are clean	
☒	☐	☐	☐	Materials not stored within 6 inches of hood face	
☐	☐	☐	☒	Large equipment in hood raised a few inches to allow airflow underneath	
☒	☐	☐	☐	Fume hoods are properly sited (e.g. not in walkway, near door, against wall)	
☒	☐	☐	☐	Supply air properly sited (not oblique to hood/introducing turbulence)	
☒	☐	☐	☐	Fume hood components are in good condition	
☐	☐	☐	☒	Audible/visual alarm functional	did not go off
☒	☐	☐	☐	Sash moves with less than 5 lbs. pressure	
☒	☐	☐	☐	Fume hood/local exhaust is adequate in this laboratory	
☒	☐	☐	☐	Laboratory workers are properly trained in fume hood use	
☒	☐	☐	☐	Flammable storage cabinets vented (Not a regulatory requirement)	
☐	☐	☐	☒	Corrosive storage cabinets vented (Not a regulatory requirement)	
☐	☐	☐	☒	Gas cylinder storage cabinets vented	
☐	☐	☐	☒	Biosafety cabinets certified within 1 year	
☒	☐	☐	☐	Laboratory is negatively pressurized if hazardous/dangerous agents are present	
☒	☐	☐	☐	Laboratory windows are maintained closed	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Chemical Storage and Compatibility					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Chemical containers in good condition	
☒	☐	☐	☐	Less than 10 gallons flammables stored outside flammable storage cabinets	
☒	☐	☐	☐	Maximum 60 gallons flammables per cabinet and maximum 3 cabinets per lab/control/fire area	
☒	☐	☐	☐	Oxidizers not stored with flammables/combustibles	
☒	☐	☐	☐	Combustible materials not stored with flammables	
☐	☐	☐	☒	Strong acids and strong bases not stored together and stored in secondary containment	
☒	☐	☐	☐	Flammable and corrosive liquids not stored above eye level	
☒	☐	☐	☐	Minimal acids stored outside corrosive cabinet	
☐	☐	☐	☒	Hydrofluoric acid properly handled and stored	
☐	☐	☐	☒	If hydrofluoric acid in lab, calcium gluconate gel is present, and personnel know location	
☐	☐	☐	☒	Perchloric acid properly handled and stored	
☐	☐	☐	☒	Ethers and peroxidizable compounds dated	
☐	☐	☐	☒	Water reactive chemicals segregated, contained and labeled	
☐	☐	☐	☒	Pyrophoric chemicals segregated, properly contained and labeled	
☐	☐	☐	☒	Health hazard chemicals (e.g. carcinogens, mutagens, reproductive toxins, highly toxic) segregated and stored in designated areas by hazard class	
☐	☐	☐	☒	Hazardous chemicals, compressed gases and cryogens not stored in cold rooms & freezers due to lack of ventilation	
☐	☐	☐	☒	Mercury containing equipment removed or stored safely to prevent breakage	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Gas Cylinders					
Y	N	S	NA	Inspected	Comments
☐	☐	☐	☒	Gas cylinders secured upright to stable structure with chain/braided strap	
☐	☐	☐	☒	Gas cylinder valve protection caps in place when not in use	
☐	☐	☐	☒	Gas cylinders not stored near laboratory entrance	
☐	☐	☐	☒	Cylinders not stored or used in public hallways/exitways/means of egress	
☐	☐	☐	☒	Cylinder contents clearly labeled	
☐	☐	☐	☒	Empty cylinders not stored with full cylinders	
☐	☐	☐	☒	Cylinders are in good condition	
☐	☐	☐	☒	Regulators in good condition and properly attached	
☐	☐	☐	☒	Tubing is in good condition and tightly connected to equipment	

Dangerous Waste					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Dangerous Waste containers properly & accurately labeled: chemical names (no abbreviations), hazard(s) identified, & constituent percentages add up to 100%	
☒	☐	☐	☐	Dangerous waste containers do not have conflicting labels	
☒	☐	☐	☐	Waste is compatible with the container	
☒	☐	☐	☐	Secondary containment is provided for waste	
☒	☐	☐	☐	Bottles are filled to a safe level (sufficient head space)	
☒	☐	☐	☐	Waste container caps closed when not in use (no funnels in bottles), vented caps are used as appropriate	
☒	☐	☐	☐	Containers are clean on the outside	
☒	☐	☐	☐	Containers do not leak	
☒	☐	☐	☐	Incompatible wastes are separated	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Mechanical and Electrical Safety					
Y	N	S	NA	Inspected	Comments
☐	☐	☐	☒	Electrical panel accessible (30 inches of access clearance)	
☒	☐	☐	☐	Plugs, cords, outlets in good condition	
☒	☐	☐	☐	No overloaded outlets or daisy chains	
☒	☐	☐	☐	Extension cords used only temporarily and do not pose tripping hazard	
☒	☐	☐	☐	Power cords are not routed under doors, carpets or through ceilings	
☒	☐	☐	☐	Power strips secured off floor away from liquids	
☒	☐	☐	☐	Ground Fault Circuit Interrupters (GFCI's) provided, where applicable	
☒	☐	☐	☐	Outlets within 6 feet of water source have GFCI protection	
☒	☐	☐	☐	Movable parts guarded on equipment	
☐	☐	☐	☒	Emergency shutoff switches where applicable	
☒	☐	☐	☐	Equipment removed from service is locked and/or tagged out to prevent unauthorized use	
☐	☐	☐	☒	Labs with pressurized vessels: Each has been tested/labeled	
☐	☐	☐	☒	Flexible neoprene or braided steel tubing used for gas burners	
☐	☐	☐	☒	Drain traps are filled weekly/biweekly to prevent odor problems	
☐	☐	☐	☒	Tubing/hoses attached to faucets are cut off above the sink line to prevent backflow into water/DI water system	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Notes

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Laboratory Inspection Checklist

Inspector:	Kyrstan Fho Gwano	Date:	10/27/25
Inspector phone:	509-263-9571	Accompanied by:	
Inspector email:	Kyrstan.fho@wsu.edu		

Laboratory Information	
Department	Nuclear Science Center
Principal Investigator (PI)/Laboratory Instructor	Zach McLean
PI telephone number	Zachariah.Helton@wsu.edu
PI e-mail address	509-335-0436
Building	Dodgen
Laboratory room number(s)	110
Lab Safety contact person	Zach McLean
Lab Safety contact telephone number	509-335-0436
Lab Safety contact e-mail address	Zachariah.Helton@wsu.edu

☒ Radiation	☐ Lasers (Highest Class: _____)	☐ Biosafety 2 or greater	☐ Animals	☐ Hazardous Drugs
---	---	---	----------------------------------	--

Chemical Classes Present	
☒ Particularly Hazardous Substances (select carcinogens, acute toxins, reproductive toxins)	☒ Flammable Chemicals
☐ Regulated Carcinogens	☐ Flammable Gases
☐ Pyrophorics	☐ Toxic Gases
☐ Water Reactives	☐ Explosive Chemicals
☐ Reducing Agents	☐ Peroxide Formers
☐ Oxidizers	☐ Corrosive Chemicals

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Laboratory Safety Manual (LSM): Personnel know how to access online LSM on EHS website	
☒	☐	☐	☐	Chemical Hygiene Plan (CHP) accessible and personnel read & signed document	
☒	☐	☐	☐	Standard Operating Procedures (SOP) accessible; personnel trained on them	
☒	☐	☐	☐	Information on the contents of WAC Chapter 296-828 "Hazardous Chemicals in Laboratories" and where to find a copy are provided to employees	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	Laboratory floor plan showing availability of safety equipment	
☒	☐	☐	☐	Lab personnel have been trained on the hazards and protection measures of chemicals they work with	
☒	☐	☐	☐	Employees subject to Bloodborne Pathogens have attended training	
☒	☐	☐	☐	Training records are available for PPE; hazard assessment documents present	
☒	☐	☐	☐	Dangerous (hazardous) chemical waste training documented	
☒	☐	☐	☐	Inspections performed at least annually and documented by PI or supervisor	
☒	☐	☐	☐	Medical/exposure monitoring performed and documented when required (e.g. formaldehyde)	

Hazard Communication and Signage					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	SDSs are accessible (hard copy or electronic)	in file broken
☐	☒	☐	☐	Current chemical inventory available	
☒	☐	☐	☐	Laboratory Signage Program sign posted, updated annually	
☐	☒	☐	☐	Signage used for Biosafety facilities	
☒	☐	☐	☐	Chemical storage cabinets labeled (e.g. flammables, corrosives, etc.)	
☐	☐	☐	☒	Refrigerators/freezers labeled with food/drink specifications	
☒	☐	☐	☐	Laboratory sink water faucets and eyewash stations are labeled (if required) "CAUTION: Non-Potable Water. DO NOT DRINK."	
☒	☐	☐	☐	Chemical containers (primary & secondary) labeled per HazCom requirements, no conflicting labels	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Emergency Information and Equipment					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Emergency assistance/contact information posted in laboratory	
☒	☒	☐	☐	Safety showers, eyewash stations, and drench hoses are available within 10 seconds and 50 feet of the chemical hazard with no obstructions in the travel path (e.g. steps, doors without crash bars)	<i>Do Shower FL</i>
☒	☐	☐	☐	Eyewash stations and drench hoses are activated weekly (Do not activate shower unless a true emergency)	
☒	☐	☐	☐	Areas around emergency washing equipment kept clear (e.g. Showers must have 16 inches clearance in each direction, eyewash units do not have glassware around them)	
☒	☐	☐	☐	First-Aid Kits present and properly stocked (contents not outdated)	
☒	☐	☐	☐	Laboratory Spill kit properly stocked and accessible, spill procedures known	

Personal Protective Equipment (PPE)					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Closed toe shoes and long pants worn by laboratory personnel	
☒	☐	☐	☐	Laboratory coats properly selected and worn	
☒	☐	☐	☐	Gloves properly selected and worn	
☒	☐	☐	☐	Proper eye protection worn (e.g. goggles must be worn for splash protection)	
☒	☐	☐	☐	Adequate/appropriate PPE available (e.g. UV/IR glasses, face shields, lab aprons, cryogenic gloves)	
☐	☐	☐	☒	Personnel enrolled in Respiratory Protection Program when required	
☒	☐	☐	☐	Sink, soap and towels available for hand washing	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Fire Safety					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Fire extinguishers present, functional, properly located, visibly signed, and accessible (not blocked)	but on given
☐	☐	☐	☒	Labs where combustible metals are present have a Class D extinguisher	
☒	☐	☐	☐	Storage clearance from ceiling is 18 inches when sprinklers present and 24 inches without sprinklers	
☒	☐	☐	☐	Excess combustible materials cleared away (e.g. paper, garbage, etc.)	

Housekeeping					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	Aisles/walking paths not blocked (24" minimum width)	
☐	☒	☐	☐	Means of egress/emergency exits/corridors not blocked (36" minimum width)	
☒	☐	☐	☐	Laboratory doors kept closed	
☒	☐	☐	☐	Spills are cleaned up promptly (provided spills can be safely cleaned up in under 15 minutes wearing normal PPE)	
☒	☐	☐	☐	Minimal floor chemical storage, adequate safety cabinetry, secondary containment and work space	
☒	☐	☐	☐	Chemical containers on floor are in secondary containment	
☒	☐	☐	☐	No evidence of food, drink or smoking	
☒	☐	☐	☐	Slip, trip and fall hazards minimized	
☒	☐	☐	☐	Minimal glassware on bench top, in sinks	
☒	☐	☐	☐	Minimal glassware in fume hood	
☐	☒	☐	☐	Proper sharps disposal and sharps containers less than ¾ full	
☐	☒	☐	☐	Proper disposal of glass waste	
☐	☒	☐	☐	Biohazardous waste properly stored	
☐	☒	☐	☐	Laboratory environment safe for custodial services to enter	
☒	☐	☐	☐	No fabric/upholstered furniture/chairs	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Fume Hoods and Ventilation					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Fume hoods certified within 1 year	
☒	☐	☐	☐	Proper sash height indicated	
☐	☒	☐	☐	Sash down when not in use	
☒	☐	☐	☐	Sash stoppers functional when present	
☒	☐	☐	☐	Hoods have adequate work space, free from excessive storage and are clean	
☒	☐	☐	☐	Materials not stored within 6 inches of hood face	
☐	☐	☐	☒	Large equipment in hood raised a few inches to allow airflow underneath	
☒	☐	☐	☐	Fume hoods are properly sited (e.g. not in walkway, near door, against wall)	
☒	☐	☐	☐	Supply air properly sited (not oblique to hood/introducing turbulence)	
☒	☐	☐	☐	Fume hood components are in good condition	
☐	☐	☐	☒	Audible/visual alarm functional	
☐	☐	☐	☒	Sash moves with less than 5 lbs. pressure	Not checked Do not touch
☒	☐	☐	☐	Fume hood/local exhaust is adequate in this laboratory	
☒	☐	☐	☐	Laboratory workers are properly trained in fume hood use	
☒	☐	☐	☐	Flammable storage cabinets vented (Not a regulatory requirement)	
☒	☐	☐	☐	Corrosive storage cabinets vented (Not a regulatory requirement)	
☐	☐	☐	☒	Gas cylinder storage cabinets vented	
☐	☐	☐	☒	Biosafety cabinets certified within 1 year	
☒	☐	☐	☐	Laboratory is negatively pressurized if hazardous/dangerous agents are present	
☒	☐	☐	☐	Laboratory windows are maintained closed	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Chemical Storage and Compatibility					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Chemical containers in good condition	
☒	☐	☐	☐	Less than 10 gallons flammables stored outside flammable storage cabinets	
☒	☐	☐	☐	Maximum 60 gallons flammables per cabinet and maximum 3 cabinets per lab/control/fire area	
☒	☐	☐	☐	Oxidizers not stored with flammables/combustibles	
☒	☐	☐	☐	Combustible materials not stored with flammables	
☒	☐	☐	☐	Strong acids and strong bases not stored together and stored in secondary containment	
☒	☐	☐	☐	Flammable and corrosive liquids not stored above eye level	
☒	☐	☐	☐	Minimal acids stored outside corrosive cabinet	
☐	☐	☐	☒	Hydrofluoric acid properly handled and stored	
☐	☐	☐	☒	If hydrofluoric acid in lab, calcium gluconate gel is present, and personnel know location	
☐	☐	☐	☒	Perchloric acid properly handled and stored	
☐	☐	☐	☒	Ethers and peroxidizable compounds dated	
☐	☐	☐	☒	Water reactive chemicals segregated, contained and labeled	
☐	☐	☐	☒	Pyrophoric chemicals segregated, properly contained and labeled	
☒	☐	☐	☐	Health hazard chemicals (e.g. carcinogens, mutagens, reproductive toxins, highly toxic) segregated and stored in designated areas by hazard class	
☐	☐	☐	☒	Hazardous chemicals, compressed gases and cryogens not stored in cold rooms & freezers due to lack of ventilation	
☐	☐	☐	☒	Mercury containing equipment removed or stored safely to prevent breakage	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Gas Cylinders					
Y	N	S	NA	Inspected	Comments
☐	☐	☐	☐	Gas cylinders secured upright to stable structure with chain/braided strap	
☐	☐	☐	☐	Gas cylinder valve protection caps in place when not in use	
☐	☐	☐	☐	Gas cylinders not stored near laboratory entrance	
☐	☐	☐	☐	Cylinders not stored or used in public hallways/exitways/means of egress	
☐	☐	☐	☐	Cylinder contents clearly labeled	
☐	☐	☐	☐	Empty cylinders not stored with full cylinders	
☐	☐	☐	☐	Cylinders are in good condition	
☐	☐	☐	☐	Regulators in good condition and properly attached	
☐	☐	☐	☐	Tubing is in good condition and tightly connected to equipment	

Dangerous Waste					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	Dangerous Waste containers properly & accurately labeled: chemical names (no abbreviations), hazard(s) identified, & constituent percentages add up to 100%	
☒	☒	☐	☐	Dangerous waste containers do not have conflicting labels	
☒	☐	☐	☐	Waste is compatible with the container	
☒	☐	☐	☐	Secondary containment is provided for waste	
☒	☐	☐	☐	Bottles are filled to a safe level (sufficient head space)	
☒	☐	☐	☐	Waste container caps closed when not in use (no funnels in bottles), vented caps are used as appropriate	
☒	☐	☐	☐	Containers are clean on the outside	
☒	☐	☐	☐	Containers do not leak	
☒	☐	☐	☐	Incompatible wastes are separated	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Mechanical and Electrical Safety					
Y	N	S	NA	Inspected	Comments
☐	☐	☐	☒	Electrical panel accessible (30 inches of access clearance)	
☒	☐	☐	☐	Plugs, cords, outlets in good condition	
☒	☐	☐	☐	No overloaded outlets or daisy chains	
☒	☐	☐	☐	Extension cords used only temporarily and do not pose tripping hazard	
☒	☐	☐	☐	Power cords are not routed under doors, carpets or through ceilings	
☒	☐	☐	☐	Power strips secured off floor away from liquids	
☒	☐	☐	☐	Ground Fault Circuit Interrupters (GFCI's) provided, where applicable	
☒	☐	☐	☐	Outlets within 6 feet of water source have GFCI protection	
☒	☐	☐	☐	Movable parts guarded on equipment	
☐	☐	☐	☒	Emergency shutoff switches where applicable	
☐	☒	☐	☐	Equipment removed from service is locked and/or tagged out to prevent unauthorized use	
☐	☐	☐	☒	Labs with pressurized vessels: Each has been tested/labeled	
☒	☐	☐	☐	Flexible neoprene or braided steel tubing used for gas burners	
☐	☐	☐	☒	Drain traps are filled weekly/biweekly to prevent odor problems	
☒	☐	☐	☐	Tubing/hoses attached to faucets are cut off above the sink line to prevent backflow into water/DI water system	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Notes

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

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Laboratory Inspection Checklist

Inspector:	Konstantine Gervanius	Date:	10/27/25
Inspector phone:	509-263-4571	Accompanied by:	
Inspector email:	Kgervanius@wsu.edu		

Laboratory Information	
Department	Nuclear Science Center
Principal Investigator (PI)/Laboratory Instructor	Zach Heiden
PI telephone number	509-335-0936
PI e-mail address	Zachary.Hiden@wsu.edu
Building	Dodgen
Laboratory room number(s)	214
Lab Safety contact person	Zach Heiden
Lab Safety contact telephone number	509-335-0936
Lab Safety contact e-mail address	Zachary.Hiden@wsu.edu

☒ Radiation	☐ Lasers (Highest Class: _____)	☐ Biosafety 2 or greater	☐ Animals	☐ Hazardous Drugs
---	---	---	----------------------------------	--

Chemical Classes Present	
☒ Particularly Hazardous Substances (select carcinogens, acute toxins, reproductive toxins)	☐ Flammable Chemicals
☐ Regulated Carcinogens	☐ Flammable Gases
☐ Pyrophorics	☐ Toxic Gases
☐ Water Reactives	☐ Explosive Chemicals
☐ Reducing Agents	☐ Peroxide Formers
☐ Oxidizers	☒ Corrosive Chemicals

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Laboratory Safety Manual (LSM): Personnel know how to access online LSM on EHS website	
☒	☐	☐	☐	Chemical Hygiene Plan (CHP) accessible and personnel read & signed document	
☒	☐	☐	☐	Standard Operating Procedures (SOP) accessible; personnel trained on them	4410 Operations Manual missing
☒	☐	☐	☐	Information on the contents of WAC Chapter 296-828 "Hazardous Chemicals in Laboratories" and where to find a copy are provided to employees	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Laboratory floor plan showing availability of safety equipment	
☒	☐	☐	☐	Lab personnel have been trained on the hazards and protection measures of chemicals they work with	
☐	☐	☐	☒	Employees subject to Bloodborne Pathogens have attended training	
☒	☐	☐	☐	Training records are available for PPE; hazard assessment documents present	
☒	☐	☐	☐	Dangerous (hazardous) chemical waste training documented	
☒	☐	☐	☐	Inspections performed at least annually and documented by PI or supervisor	
☐	☐	☐	☒	Medical/exposure monitoring performed and documented when required (e.g. formaldehyde)	

Hazard Communication and Signage					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	SDSs are accessible (hard copy or electronic)	link for AC + work
☐	☒	☐	☐	Current chemical inventory available	
☒	☐	☐	☐	Laboratory Signage Program sign posted, updated annually	
☐	☐	☐	☒	Signage used for Biosafety facilities	
☐	☐	☐	☒	Chemical storage cabinets labeled (e.g. flammables, corrosives, etc.)	
☐	☐	☐	☒	Refrigerators/freezers labeled with food/drink specifications	
☐	☒	☐	☐	Laboratory sink water faucets and eyewash stations are labeled (if required) "CAUTION: Non-Potable Water. DO NOT DRINK."	no label on faucet
☐	☐	☐	☒	Chemical containers (primary & secondary) labeled per HazCom requirements, no conflicting labels	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

214

Laboratory Inspection Checklist

Inspector:	Konstantine Geleranis	Date:	10/27/25
Inspector phone:	509-263-9571	Accompanied by:	
Inspector email:	Kgeleranis@wsu.edu		

Laboratory Information	
Department	Nuclear Science Center
Principal Investigator (PI)/Laboratory Instructor	Zach Heiden
PI telephone number	509-335-0936
PI e-mail address	Zachary.Heiden@wsu.edu
Building	Dodgen
Laboratory room number(s)	214
Lab Safety contact person	Zach Heiden
Lab Safety contact telephone number	509-335-0936
Lab Safety contact e-mail address	Zachary.Heiden@wsu.edu

☒ Radiation	☐ Lasers (Highest Class: _____)	☐ Biosafety 2 or greater	☐ Animals	☐ Hazardous Drugs
---	---	---	----------------------------------	--

Chemical Classes Present	
☒ Particularly Hazardous Substances (select carcinogens, acute toxins, reproductive toxins)	☐ Flammable Chemicals
☐ Regulated Carcinogens	☐ Flammable Gases
☐ Pyrophorics	☐ Toxic Gases
☐ Water Reactives	☐ Explosive Chemicals
☐ Reducing Agents	☐ Peroxide Formers
☐ Oxidizers	☒ Corrosive Chemicals

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Laboratory Safety Manual (LSM): Personnel know how to access online LSM on EHS website	
☒	☐	☐	☐	Chemical Hygiene Plan (CHP) accessible and personnel read & signed document	
☒	☐	☐	☐	Standard Operating Procedures (SOP) accessible; personnel trained on them	4910 Operations Manual missing
☒	☐	☐	☐	Information on the contents of WAC Chapter 296-828 "Hazardous Chemicals in Laboratories" and where to find a copy are provided to employees	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Laboratory floor plan showing availability of safety equipment	
☒	☐	☐	☐	Lab personnel have been trained on the hazards and protection measures of chemicals they work with	
☐	☐	☐	☒	Employees subject to Bloodborne Pathogens have attended training	
☒	☐	☐	☐	Training records are available for PPE; hazard assessment documents present	
☒	☐	☐	☐	Dangerous (hazardous) chemical waste training documented	
☒	☐	☐	☐	Inspections performed at least annually and documented by PI or supervisor	
☐	☐	☐	☒	Medical/exposure monitoring performed and documented when required (e.g. formaldehyde)	

Hazard Communication and Signage					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	SDSs are accessible (hard copy or electronic)	link box not work
☐	☒	☐	☐	Current chemical inventory available	
☒	☐	☐	☐	Laboratory Signage Program sign posted, updated annually	
☐	☐	☐	☒	Signage used for Biosafety facilities	
☐	☐	☐	☒	Chemical storage cabinets labeled (e.g. flammables, corrosives, etc.)	
☐	☐	☐	☒	Refrigerators/freezers labeled with food/drink specifications	
☐	☒	☐	☐	Laboratory sink water faucets and eyewash stations are labeled (if required) "CAUTION: Non-Potable Water. DO NOT DRINK."	no label on faucet
☐	☐	☐	☒	Chemical containers (primary & secondary) labeled per HazCom requirements, no conflicting labels	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Emergency Information and Equipment					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Emergency assistance/contact information posted in laboratory	
☐	☒	☐	☐	Safety showers, eyewash stations, and drench hoses are available within 10 seconds and 50 feet of the chemical hazard with no obstructions in the travel path (e.g. steps, doors without crash bars)	No shower in room
☒	☐	☐	☐	Eyewash stations and drench hoses are activated weekly (Do not activate shower unless a true emergency)	
☐	☒	☐	☐	Areas around emergency washing equipment kept clear (e.g. Showers must have 16 inches clearance in each direction, eyewash units do not have glassware around them)	samples next to eyewash station
☐	☒	☐	☐	First-Aid Kits present and properly stocked (contents not outdated)	No first aid kit
☐	☒	☐	☐	Laboratory Spill kit properly stocked and accessible, spill procedures known	No spill kit

Personal Protective Equipment (PPE)					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Closed toe shoes and long pants worn by laboratory personnel	
☐	☐	☐	☒	Laboratory coats properly selected and worn	
☒	☐	☐	☐	Gloves properly selected and worn	
☒	☐	☐	☐	Proper eye protection worn (e.g. goggles must be worn for splash protection)	
☒	☐	☐	☐	Adequate/appropriate PPE available (e.g. UV/IR glasses, face shields, lab aprons, cryogenic gloves)	
☐	☐	☐	☒	Personnel enrolled in Respiratory Protection Program when required	
☐	☒	☐	☐	Sink, soap and towels available for hand washing	No soap no towels

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Fire Safety					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Fire extinguishers present, functional, properly located, visibly signed, and accessible (not blocked)	
☐	☐	☐	☒	Labs where combustible metals are present have a Class D extinguisher	
☒	☐	☐	☐	Storage clearance from ceiling is 18 inches when sprinklers present and 24 inches without sprinklers	
☒	☐	☐	☐	Excess combustible materials cleared away (e.g. paper, garbage, etc.)	

Housekeeping					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Aisles/walking paths not blocked (24" minimum width)	
☒	☐	☐	☐	Means of egress/emergency exits/corridors not blocked (36" minimum width)	
☒	☐	☐	☐	Laboratory doors kept closed	
☒	☐	☐	☒	Spills are cleaned up promptly (provided spills can be safely cleaned up in under 15 minutes wearing normal PPE)	
☒	☐	☐	☐	Minimal floor chemical storage, adequate safety cabinetry, secondary containment and work space	
☒	☐	☐	☒	Chemical containers on floor are in secondary containment	
☒	☐	☐	☐	No evidence of food, drink or smoking	
☒	☐	☐	☐	Slip, trip and fall hazards minimized	
☒	☐	☐	☐	Minimal glassware on bench top, in sinks	
☒	☐	☐	☐	Minimal glassware in fume hood	
☐	☐	☐	☒	Proper sharps disposal and sharps containers less than ¾ full	
☒	☐	☐	☐	Proper disposal of glass waste	
☐	☐	☐	☒	Biohazardous waste properly stored	
☐	☒	☐	☐	Laboratory environment safe for custodial services to enter	
☒	☐	☐	☐	No fabric/upholstered furniture/chairs	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Fume Hoods and Ventilation					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Fume hoods certified within 1 year	
☒	☐	☐	☐	Proper sash height indicated	
☒	☐	☐	☐	Sash down when not in use	
☒	☐	☐	☐	Sash stoppers functional when present	
☒	☐	☐	☐	Hoods have adequate work space, free from excessive storage and are clean	
☒	☐	☐	☐	Materials not stored within 6 inches of hood face	
☒	☐	☐	☐	Large equipment in hood raised a few inches to allow airflow underneath	
☒	☐	☐	☐	Fume hoods are properly sited (e.g. not in walkway, near door, against wall)	
☒	☐	☐	☐	Supply air properly sited (not oblique to hood/introducing turbulence)	
☒	☐	☐	☐	Fume hood components are in good condition	
☐	☐	☐	☒	Audible/visual alarm functional	
☒	☐	☐	☐	Sash moves with less than 5 lbs. pressure	
☒	☐	☐	☐	Fume hood/local exhaust is adequate in this laboratory	
☒	☐	☐	☐	Laboratory workers are properly trained in fume hood use	
☒	☐	☐	☐	Flammable storage cabinets vented (Not a regulatory requirement)	
☐	☐	☐	☒	Corrosive storage cabinets vented (Not a regulatory requirement)	
☐	☐	☐	☒	Gas cylinder storage cabinets vented	
☐	☐	☐	☒	Biosafety cabinets certified within 1 year	
☒	☐	☐	☐	Laboratory is negatively pressurized if hazardous/dangerous agents are present	
☒	☐	☐	☐	Laboratory windows are maintained closed	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Chemical Storage and Compatibility					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Chemical containers in good condition	
☒	☐	☐	☐	Less than 10 gallons flammables stored outside flammable storage cabinets	
☒	☐	☐	☐	Maximum 60 gallons flammables per cabinet and maximum 3 cabinets per lab/control/fire area	
☒	☐	☐	☐	Oxidizers not stored with flammables/combustibles	
☒	☐	☐	☐	Combustible materials not stored with flammables	
☒	☐	☐	☐	Strong acids and strong bases not stored together and stored in secondary containment	
☒	☐	☐	☐	Flammable and corrosive liquids not stored above eye level	
☒	☐	☐	☐	Minimal acids stored outside corrosive cabinet	
☐	☐	☐	☒	Hydrofluoric acid properly handled and stored	
☐	☐	☐	☒	If hydrofluoric acid in lab, calcium gluconate gel is present, and personnel know location	
☐	☐	☐	☒	Perchloric acid properly handled and stored	
☐	☐	☐	☒	Ethers and peroxidizable compounds dated	
☐	☐	☐	☒	Water reactive chemicals segregated, contained and labeled	
☐	☐	☐	☒	Pyrophoric chemicals segregated, properly contained and labeled	
☐	☐	☐	☒	Health hazard chemicals (e.g. carcinogens, mutagens, reproductive toxins, highly toxic) segregated and stored in designated areas by hazard class	
☐	☐	☐	☒	Hazardous chemicals, compressed gases and cryogens not stored in cold rooms & freezers due to lack of ventilation	
☐	☐	☐	☒	Mercury containing equipment removed or stored safely to prevent breakage	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Gas Cylinders					
Y	N	S	NA	Inspected	Comments
☐	☐	☐	☒	Gas cylinders secured upright to stable structure with chain/braided strap	
☐	☐	☐	☒	Gas cylinder valve protection caps in place when not in use	
☐	☐	☐	☒	Gas cylinders not stored near laboratory entrance	
☐	☐	☐	☒	Cylinders not stored or used in public hallways/exitways/means of egress	
☐	☐	☐	☒	Cylinder contents clearly labeled	
☐	☐	☐	☒	Empty cylinders not stored with full cylinders	
☐	☐	☐	☒	Cylinders are in good condition	
☐	☐	☐	☒	Regulators in good condition and properly attached	
☐	☐	☐	☒	Tubing is in good condition and tightly connected to equipment	

Dangerous Waste					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Dangerous Waste containers properly & accurately labeled: chemical names (no abbreviations), hazard(s) identified, & constituent percentages add up to 100%	
☒	☐	☐	☐	Dangerous waste containers do not have conflicting labels	
☒	☐	☐	☐	Waste is compatible with the container	
☒	☐	☐	☐	Secondary containment is provided for waste	
☒	☐	☐	☒	Bottles are filled to a safe level (sufficient head space)	
☒	☐	☐	☐	Waste container caps closed when not in use (no funnels in bottles), vented caps are used as appropriate	
☒	☐	☐	☐	Containers are clean on the outside	
☒	☐	☐	☐	Containers do not leak	
☒	☐	☐	☐	Incompatible wastes are separated	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Mechanical and Electrical Safety					
Y	N	S	NA	Inspected	Comments
☐	☐	☐	☒	Electrical panel accessible (30 inches of access clearance)	
☐	☒	☐	☐	Plugs, cords, outlets in good condition	One electrical panel need replace
☒	☐	☐	☐	No overloaded outlets or daisy chains	
☒	☐	☐	☐	Extension cords used only temporarily and do not pose tripping hazard	
☒	☐	☐	☐	Power cords are not routed under doors, carpets or through ceilings	
☒	☐	☐	☐	Power strips secured off floor away from liquids	
☒	☐	☐	☐	Ground Fault Circuit Interrupters (GFCI's) provided, where applicable	
☒	☐	☐	☐	Outlets within 6 feet of water source have GFCI protection	
☒	☐	☐	☐	Movable parts guarded on equipment	
☐	☐	☐	☒	Emergency shutoff switches where applicable	
☐	☒	☐	☐	Equipment removed from service is locked and/or tagged out to prevent unauthorized use	Most of equipment not locked or tagged
☐	☒	☐	☐	Labs with pressurized vessels: Each has been tested/labeled	Most are
☐	☐	☐	☒	Flexible neoprene or braided steel tubing used for gas burners	
☐	☐	☐	☒	Drain traps are filled weekly/biweekly to prevent odor problems	
☐	☐	☐	☒	Tubing/hoses attached to faucets are cut off above the sink line to prevent backflow into water/DI water system	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Notes

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Laboratory Inspection Checklist

Inspector:	Konstantine Grevonik	Date:	10/27/29
Inspector phone:	509-735-4571	Accompanied by:	
Inspector email:	Kyrronik@wsu.edu		

Laboratory Information	
Department	Nuclear Science room
Principal Investigator (PI)/Laboratory Instructor	Zach Heiden
PI telephone number	509-735-0436
PI e-mail address	Zachariah.Heiden@wsu.edu
Building	Dodgen
Laboratory room number(s)	221
Lab Safety contact person	Zach Heiden
Lab Safety contact telephone number	509-735-0436
Lab Safety contact e-mail address	Zachariah.Heiden@wsu.edu

☒ Radiation	☐ Lasers (Highest Class: _____)	☐ Biosafety 2 or greater	☐ Animals	☐ Hazardous Drugs
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Chemical Classes Present	
☒ Particularly Hazardous Substances (select carcinogens, acute toxins, reproductive toxins)	☒ Flammable Chemicals
☒ Regulated Carcinogens	☐ Flammable Gases
☒ Pyrophorics	☐ Toxic Gases
☒ Water Reactives	☒ Explosive Chemicals
☒ Reducing Agents	☒ Peroxide Formers
☒ Oxidizers	☒ Corrosive Chemicals

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Laboratory Safety Manual (LSM): Personnel know how to access online LSM on EHS website	
☒	☐	☐	☐	Chemical Hygiene Plan (CHP) accessible and personnel read & signed document	
☐	☒	☐	☐	Standard Operating Procedures (SOP) accessible; personnel trained on them	
☒	☐	☐	☐	Information on the contents of WAC Chapter 296-828 "Hazardous Chemicals in Laboratories" and where to find a copy are provided to employees	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Documentation and Training					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Laboratory floor plan showing availability of safety equipment	
☒	☐	☐	☐	Lab personnel have been trained on the hazards and protection measures of chemicals they work with	
☐	☐	☐	☒	Employees subject to Bloodborne Pathogens have attended training	
☒	☐	☐	☐	Training records are available for PPE; hazard assessment documents present	
☒	☐	☐	☐	Dangerous (hazardous) chemical waste training documented	
☒	☐	☐	☐	Inspections performed at least annually and documented by PI or supervisor	
☒	☐	☐	☐	Medical/exposure monitoring performed and documented when required (e.g. formaldehyde)	

Hazard Communication and Signage					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	SDSs are accessible (hard copy or electronic)	link not working
☐	☒	☐	☐	Current chemical inventory available	
☒	☐	☐	☐	Laboratory Signage Program sign posted, updated annually	
☐	☐	☐	☒	Signage used for Biosafety facilities	
☐	☒	☐	☐	Chemical storage cabinets labeled (e.g. flammables, corrosives, etc.)	
☒	☐	☐	☐	Refrigerators/freezers labeled with food/drink specifications	
☒	☐	☐	☐	Laboratory sink water faucets and eyewash stations are labeled (if required) "CAUTION: Non-Potable Water. DO NOT DRINK."	
☐	☒	☐	☐	Chemical containers (primary & secondary) labeled per HazCom requirements, no conflicting labels	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Emergency Information and Equipment					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Emergency assistance/contact information posted in laboratory	
☒	☐	☐	☐	Safety showers, eyewash stations, and drench hoses are available within 10 seconds and 50 feet of the chemical hazard with no obstructions in the travel path (e.g. steps, doors without crash bars)	
☒	☐	☐	☐	Eyewash stations and drench hoses are activated weekly (Do not activate shower unless a true emergency)	
☐	☒	☐	☐	Areas around emergency washing equipment kept clear (e.g. Showers must have 16 inches clearance in each direction, eyewash units do not have glassware around them)	glassware around eyewash
☒	☐	☐	☐	First-Aid Kits present and properly stocked (contents not outdated)	
☐	☒	☐	☐	Laboratory Spill kit properly stocked and accessible, spill procedures known	

Personal Protective Equipment (PPE)					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Closed toe shoes and long pants worn by laboratory personnel	
☒	☐	☐	☐	Laboratory coats properly selected and worn	
☒	☐	☐	☐	Gloves properly selected and worn	
☒	☐	☐	☐	Proper eye protection worn (e.g. goggles must be worn for splash protection)	
☒	☐	☐	☐	Adequate/appropriate PPE available (e.g. UV/IR glasses, face shields, lab aprons, cryogenic gloves)	
☐	☒	☐	☒	Personnel enrolled in Respiratory Protection Program when required	
☐	☒	☐	☐	Sink, soap and towels available for hand washing	no towels

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Fire Safety					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Fire extinguishers present, functional, properly located, visibly signed, and accessible (not blocked)	
☐	☒	☐	☐	Labs where combustible metals are present have a Class D extinguisher	Unclear if the metals are present but no class D
☒	☐	☐	☐	Storage clearance from ceiling is 18 inches when sprinklers present and 24 inches without sprinklers	
☐	☒	☐	☐	Excess combustible materials cleared away (e.g. paper, garbage, etc.)	

Housekeeping					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	Aisles/walking paths not blocked (24" minimum width)	
☐	☒	☐	☐	Means of egress/emergency exits/corridors not blocked (36" minimum width)	
☒	☐	☐	☐	Laboratory doors kept closed	
☒	☐	☐	☐	Spills are cleaned up promptly (provided spills can be safely cleaned up in under 15 minutes wearing normal PPE)	
☐	☒	☐	☐	Minimal floor chemical storage, adequate safety cabinetry, secondary containment and work space	
☒	☐	☐	☐	Chemical containers on floor are in secondary containment	
☒	☐	☐	☐	No evidence of food, drink or smoking	
☐	☒	☐	☐	Slip, trip and fall hazards minimized	
☐	☒	☐	☐	Minimal glassware on bench top, in sinks	
☒	☐	☐	☐	Minimal glassware in fume hood	
☐	☐	☐	☒	Proper sharps disposal and sharps containers less than ¾ full	
☒	☐	☐	☐	Proper disposal of glass waste	
☐	☐	☐	☒	Biohazardous waste properly stored	
☐	☒	☐	☐	Laboratory environment safe for custodial services to enter	
☒	☐	☐	☐	No fabric/upholstered furniture/chairs	

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Laboratory Inspection Checklist

Fume Hoods and Ventilation					
Y	N	S	NA	Inspected	Comments
☒	☐	☐	☐	Fume hoods certified within 1 year	
☒	☐	☐	☐	Proper sash height indicated	
☒	☐	☐	☒	Sash down when not in use	
☒	☐	☐	☒	Sash stoppers functional when present	
☒	☐	☐	☐	Hoods have adequate work space, free from excessive storage and are clean	
☐	☒	☐	☐	Materials not stored within 6 inches of hood face	
☐	☐	☐	☒	Large equipment in hood raised a few inches to allow airflow underneath	
☒	☐	☐	☐	Fume hoods are properly sited (e.g. not in walkway, near door, against wall)	
☒	☐	☐	☐	Supply air properly sited (not oblique to hood/introducing turbulence)	
☒	☐	☐	☐	Fume hood components are in good condition	
☐	☒	☐	☐	Audible/visual alarm functional	
☐	☒	☐	☐	Sash moves with less than 5 lbs. pressure	
☒	☐	☐	☐	Fume hood/local exhaust is adequate in this laboratory	
☒	☐	☐	☐	Laboratory workers are properly trained in fume hood use	
☐	☒	☐	☐	Flammable storage cabinets vented (Not a regulatory requirement)	
☐	☒	☐	☐	Corrosive storage cabinets vented (Not a regulatory requirement)	
☐	☐	☐	☒	Gas cylinder storage cabinets vented	
☐	☐	☐	☒	Biosafety cabinets certified within 1 year	
☒	☐	☐	☐	Laboratory is negatively pressurized if hazardous/dangerous agents are present	
☒	☐	☐	☐	Laboratory windows are maintained closed	

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Laboratory Inspection Checklist

Chemical Storage and Compatibility					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	Chemical containers in good condition	
☐	☒	☐	☐	Less than 10 gallons flammables stored outside flammable storage cabinets	
☐	☐	☐	☒	Maximum 60 gallons flammables per cabinet and maximum 3 cabinets per lab/control/fire area	cabinet locked
☐	☐	☐	☒	Oxidizers not stored with flammables/combustibles	no oxidizers seen but in container
☐	☒	☐	☐	Combustible materials not stored with flammables	
☐	☐	☐	☐	Strong acids and strong bases not stored together and stored in secondary containment	
☒	☐	☐	☐	Flammable and corrosive liquids not stored above eye level	
☐	☒	☐	☐	Minimal acids stored outside corrosive cabinet	
☐	☐	☐	☐	Hydrofluoric acid properly handled and stored	
☐	☐	☐	☐	If hydrofluoric acid in lab, calcium gluconate gel is present, and personnel know location	
☐	☐	☐	☐	Perchloric acid properly handled and stored	
☒	☐	☐	☐	Ethers and peroxidizable compounds dated	
☐	☒	☐	☐	Water reactive chemicals segregated, contained and labeled	
☐	☒	☐	☐	Pyrophoric chemicals segregated, properly contained and labeled	
☐	☒	☐	☐	Health hazard chemicals (e.g. carcinogens, mutagens, reproductive toxins, highly toxic) segregated and stored in designated areas by hazard class	
☐	☐	☐	☒	Hazardous chemicals, compressed gases and cryogens not stored in cold rooms & freezers due to lack of ventilation	
☐	☒	☐	☐	Mercury containing equipment removed or stored safely to prevent breakage	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Gas Cylinders					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☒	Gas cylinders secured upright to stable structure with chain/braided strap	
☐	☐	☐	☒	Gas cylinder valve protection caps in place when not in use	
☐	☐	☐	☒	Gas cylinders not stored near laboratory entrance	
☐	☐	☐	☒	Cylinders not stored or used in public hallways/exitways/means of egress	
☐	☐	☐	☒	Cylinder contents clearly labeled	
☐	☐	☐	☒	Empty cylinders not stored with full cylinders	
☐	☐	☐	☒	Cylinders are in good condition	
☐	☐	☐	☒	Regulators in good condition and properly attached	
☐	☐	☐	☒	Tubing is in good condition and tightly connected to equipment	

Dangerous Waste					
Y	N	S	NA	Inspected	Comments
☐	☒	☐	☐	Dangerous Waste containers properly & accurately labeled: chemical names (no abbreviations), hazard(s) identified, & constituent percentages add up to 100%	
☒	☐	☐	☒	Dangerous waste containers do not have conflicting labels	
☒	☐	☐	☒	Waste is compatible with the container	
☒	☐	☐	☒	Secondary containment is provided for waste	
☒	☐	☐	☐	Bottles are filled to a safe level (sufficient head space)	
☒	☐	☐	☐	Waste container caps closed when not in use (no funnels in bottles), vented caps are used as appropriate	
☒	☐	☐	☐	Containers are clean on the outside	
☒	☐	☐	☐	Containers do not leak	
☒	☐	☐	☐	Incompatible wastes are separated	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Laboratory Inspection Checklist

Mechanical and Electrical Safety					
Y	N	S	NA	Inspected	Comments
☐	☐	☐	☒	Electrical panel accessible (30 inches of access clearance)	
☒	☐	☐	☐	Plugs, cords, outlets in good condition	
☒	☐	☐	☐	No overloaded outlets or daisy chains	
☒	☐	☐	☐	Extension cords used only temporarily and do not pose tripping hazard	
☒	☐	☐	☐	Power cords are not routed under doors, carpets or through ceilings	
☒	☐	☐	☐	Power strips secured off floor away from liquids	
☐	☒	☐	☐	Ground Fault Circuit Interrupters (GFCI's) provided, where applicable	
☐	☒	☐	☐	Outlets within 6 feet of water source have GFCI protection	
☐	☒	☐	☐	Movable parts guarded on equipment	
☐	☐	☐	☒	Emergency shutoff switches where applicable	
☐	☒	☐	☐	Equipment removed from service is locked and/or tagged out to prevent unauthorized use	
☐	☐	☐	☒	Labs with pressurized vessels: Each has been tested/labeled	
☐	☐	☐	☒	Flexible neoprene or braided steel tubing used for gas burners	
☐	☐	☐	☒	Drain traps are filled weekly/biweekly to prevent odor problems	
☐	☐	☐	☒	Tubing/hoses attached to faucets are cut off above the sink line to prevent backflow into water/DI water system	

Y: Compliant N: Not Compliant S: Serious, should be corrected immediately NA: Not Applicable

Notes

Revised 4/2022