

ISAC Hot Cell Entry Procedure		
Document-157554	Release No. 01	Release Date.: 2020-01-24

6 Checklist

NHC entry 2020-02-77
12020-02-27-4

6.1 Preparation

Should be prepared before the day of the entry. Survey and dose estimate form must be re-done if any activity has taken place in the hot cell.

Cleaning	Hot cell cleaned, and active components moved out or away from work area	✓
Preparation	Cover area around entry with plastic Prepare bags and cable ties for waste	NA
Survey	Hot cell surveyed. Max field is <u>3.7</u> μSv/h	✓
Dose Estimate Form	Fill out form if dose rate > 500 μSv/h or estimated dose > 500 μSv	—
Work Permit	ISAC Work Permit System. Add reference to this procedure (Document-157554) in work permit	✓
Pre-check	Review entry checklist below to ensure all equipment and PPE is available	✓

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6.2 Entry

Activate Work Permit	RIB Operations/ISAC - 7500	
Notify control room of use of breathable air	Driver /Main Operations (use phone in work area to call and verify phone operational) - 7333	AM
Pre-job briefing	Conduct pre-job briefing, resolve any issues and address questions and concerns	✓
Lock-outs applied	Work Table (if not used)	—
	Manipulators (Left & Right)	—
	Turn/lift table	—
Isolate compressed gases	Compressed air disconnected	✓
	He gas cylinder and regulator closed	✓
	Ar gas cylinder and regulator closed	✓
PPE	PPE available and fits entrant	✓
	PPE available and fits standby person	✓
	Additional gloves and boots available	✓
Dosimeter	Dosimeters on and configured to alarm at 450 µSv	✓
	Entrant initials	CF
	Stand-by initials	W.S.
Supplied air	Inspection/calibration not expired of Auto Air cart <i>Ballard Box</i>	AM
	Two new sets of air hoods and hoses available and working	✓
	Setup and test Auto Air cart	✓
	Test supplied air before entry wearing full PPE	✓
Communication	Test two-way communication	✓
Names	Entrant <i>Chad</i>	
	Stand-by <i>David</i>	
	RPG <i>— Brad</i>	

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	Level 2 first aid <i>Avron</i>	
	Work/confined space supervisor <i>Andes</i>	
Entry	Time of entry (hot cell)	<i>11:30</i>
	Max allowed time in cell (from dose estimate form)	<i>No limit</i>

13:15

6.3 Exit

Exit	<ul style="list-style-type: none"> • Open aluminum panel • Remove outer overall, gloves and boots and step out • Disconnect from dirty air hood hose • Reconnect to clean hose when stepping into ante-room • Close aluminum panel • Check entrant for contamination • If/when hood is clean, remove and replace with respirator • Check remaining PPE for contamination 	<i>✓</i>
	Entrant hood clean? CPM if contaminated	<i>✓</i>
	Dose received Entrant [mSv]	<i>0.001</i>
	Dose received Stand-by [mSv]	<i>0.005</i>
	Time of exit (hot cell)	<i>12:00</i>
Notify control room of use of breathable air finished	Driver / Main Operation- 7333	<i>✓</i>

6.4 Clean up

Clean-up	Remove and dispose of plastic and used PPE. Fold plastic in on itself to prevent the spread of any remaining contamination. Label as contaminated/radioactive as required. RPG will assist.	✓
	Check personnel and equipment when exiting the ante-room and hot cell service area. Contact RPG or 7333 if contamination is found	✓

NOTES:

No contamination in NHC - simplified entry/exit without plastic. Ballard box from ATG used, as Auto Air Cart not yet tested for air quality. Procedure modification clarified with Anne Trudel 2020-02-26, cf e-mail.

Date: 2020-02-27

Supervisor signature: Anders Mjos

