

23/24 Seasonal Safety Plan

Rev. 2019-005.3

	Signature	Date
Principal Investigator	Kael Hanson (Maria, 2022 10:43 CST)	Mar 8, 2022
Project Manager	Farsh Feni	Mar 17, 2022
Quality & Safety Manager	Michael Joviel	Mar 8, 2022

Change Log

Revision	Description : Author	Date
1	Original release of simplified plan.	04/25/2019
2	Minor updates for 20/21 season. maz	03/09/2020
3	Revisions for the next drilling season. maz	02/28/2022

Forward:

We have taken the Lessons Learned from GEN 1, along with all of the positive Safety outcomes and incorporated this input into the 23/24 Seasonal Safety Plan. Please see the attached spreadsheet for the details of the plans. Please review the IceCube Upgrade Safety Manual in order to understand how we will implement and operate our Safety Programs.

IceCube Upgrade Training at PSL, August 2023

- 1. SafeStart Training for All on Ice- "Keep your Head in the Safety Game"
 - a. "Also, watch each other's back!"
 - 1. SAFETY CONTACT
- 2. General/ Job Specific Training
- 3. Review: Incident Reports/Current Hazards Analyses
- 4. Miscellaneous Safety Training:
 - a. MDS Ventilation
 - b. Personal Protection Equipment: Availability and Use.
 - c. Fire Safety: Evacuation Procedure
 - d. General Hazards
 - e. Fire Extinguisher Use
- 5. Advanced Safety Assessments: informal audits to increase Safety Awareness
- 6. METRICS: Days without a Lost Time Injury and days without an OSHA Reportable Injury; OSHA Reportable Injury (TRIR); Near Misses (See Plan)
- 7. Ice Safety Activities (See Plan)
 - a. Safety Issues will be discussed at all Shift Hand-Off Meetings.
 - b. Incident Reports will be used to track incidents to root cause and closure.
- 8. ASC/IceCube Upgrade
 - a. Walks Through/Drills (See Plan)
- 9. First Aid/CPR/AED Training. First Aid Training includes:
 - a. Hot Water Burns
 - b. Frostbite
 - c. Exposure
 - d. Altitude Sickness
 - e. Fatigue Management
- 10. ASC
 - a. Strong liaise with ASC EHS/Safety Officer
 - b. Common Safety Procedures: Fatigue Mgt., Emergency Protocols, OSHA Protocols
 - c. Joint Safety Meetings/Audits

While the Quality & Safety Manager has "Safety" in his title, you are still your own best Safety Manager. How effectively you can realize the Hazards in your area, and what you do about them will directly determine your own level of Safety.

Safety Plan Tracking - Pole Season 23/24

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3							Week	Week	Week starts	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week starts	Week	Week	
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ETRICS	Weekly				Going		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	
		Days without a Lost Time Injury		Specialized	Going On-		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	Site leads/ MAZ
ETRICS	Weekly	Days without a Lost Time Injury		Specialized	Going		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	
ETRICS 1	Weekly Hi-Level		IceCube		Going On- Going		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	Site leads/ MAZ
ETRICS	Weekly	Days without a Lost Time Injury Days without an OSHA Reportable	IceCube	Specialized Specialized	Going On-		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	
ETRICS 1	Weekly Hi-Level	Days without an OSHA Reportable	IceCube		Going On- Going On-		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	Site leads/ MAZ
ETRICS 1 2	Weekly Hi-Level Hi-Level	Days without an OSHA Reportable Injury	IceCube IceCube	Specialized	Going On- Going		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2	Weekly Hi-Level	Days without an OSHA Reportable Injury	IceCube IceCube		Going On- Going On-		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	Site leads/ MAZ
ETRICS 1 2	Weekly Hi-Level Hi-Level	Days without an OSHA Reportable Injury	IceCube IceCube	Specialized	Going On- Going On- Going On-		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24	02/26/24	Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2	Weekly Hi-Level Hi-Level	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR	IceCube IceCube	Specialized	Going On- Going On- Going		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2	Weekly Hi-Level Hi-Level Hi-Level	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR	IceCube IceCube IceCube	Specialized	Going On- Going On- Going On- Going		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3	Weekly Hi-Level Hi-Level	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR	IceCube IceCube IceCube	Specialized	Going On- Going On- Going On- Going On-		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ
1 2 3	Weekly Hi-Level Hi-Level Hi-Level	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR	IceCube IceCube IceCube	Specialized	Going On- Going On- Going On- Going		11/13/23	11/20/23	11/27/23	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3 4	Weekly Hi-Level Hi-Level Hi-Level Controllable	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences	IceCube IceCube IceCube IceCube	Specialized	Going On- Going On- Going On- Going On-	Actual	11/13/23			12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3 4	Weekly Hi-Level Hi-Level Hi-Level	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR	IceCube IceCube IceCube IceCube	Specialized Specialized Specialized Gen. Asst. /	Going On- Going On- Going On- Going	Actual			11/27/23 Resources	12/04/23	12/11/23	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3 4 Task #	Weekly Hi-Level Hi-Level Hi-Level Controllable Task type	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task	IceCube IceCube IceCube IceCube	Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start		Plan Finish	Actual Finish	Resources			12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3 4 Task # 1	Weekly Hi-Level Hi-Level Controllable Task type Preparation /	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up	IceCube IceCube IceCube IceCube	Specialized Specialized Specialized	Going On- Going On- Going On- Going			Actual Finish				12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
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TRICS 1 2 3 4 Task # 1 2 3 4 1 2 3 4	Weekly Hi-Level Hi-Level Controllable Task type Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing	IceCube IceCube IceCube IceCube IceCube ASC IceCube/ ASC IceCube/ ASC	Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11 11/12		Plan Finish 02/03 11/17 11/25 12/04	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea Drill Shift/Dep	puty Shift lea ad/ ASC puty Lead/ M	ads	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
TRICS 1 2 3 4 Task # 1 2 3 4 1 2 3 4	Weekly Hi-Level Hi-Level Controllable Task type Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing	IceCube IceCube IceCube IceCube IceCube ASC IceCube/ ASC IceCube/ ASC	Specialized Specialized Specialized Gen. Asst. / Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11		Plan Finish 02/03 11/17 11/25	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea Drill Shift/Dep	puty Shift lea ad/ ASC puty Lead/ M	ads	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
TRICS 1 2 3 4 Task # 1 2 3 4 5	Weekly Hi-Level Hi-Level Controllable Task type Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing	IceCube IceCube IceCube IceCube IceCube ASC IceCube/ ASC IceCube/ ASC	Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11 11/12		Plan Finish 02/03 11/17 11/25 12/04	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea	puty Shift lea ad/ ASC puty Lead/ M	ads	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
TRICS 1 2 3 4 Task # 1 2 3 4 5	Weekly Hi-Level Hi-Level Controllable Task type Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing Smoke/CO Monitor testing	IceCube IceCube IceCube IceCube IceCube ASC IceCube IceCube IceCube	Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11 11/12		Plan Finish 02/03 11/17 11/25 12/04 11/23	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea Drill Shift/Dep Drill Shift/Dep	puty Shift lea ad/ ASC puty Lead/ M	ads	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
TRICS 1 2 3 4 1 2 3 4 1 2 3 4 5	Weekly Hi-Level Hi-Level Hi-Level Controllable Task type Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing Smoke/CO Monitor testing	IceCube IceCube IceCube IceCube IceCube ASC IceCube IceCube IceCube	Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11 11/12		Plan Finish 02/03 11/17 11/25 12/04 11/23	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea Drill Shift/Dep Drill Shift/Dep	puty Shift lea ad/ ASC puty Lead/ M	ads	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3 4 Task # 1 2 3 4 5 6	Weekly Hi-Level Hi-Level Hi-Level Controllable Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing Smoke/CO Monitor testing Mass Casualty Drill	IceCube IceCube IceCube IceCube IceCube IceCube ASC IceCube/ ASC IceCube/ IceCube	Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11 11/12		Plan Finish 02/03 11/17 11/25 12/04	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea Drill Shift/Dep	puty Shift lea ad/ ASC puty Lead/ M	ads	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3 4 Task # 1 2 3 4 5 6	Weekly Hi-Level Hi-Level Hi-Level Controllable Task type Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing Smoke/CO Monitor testing Mass Casualty Drill	IceCube IceCube IceCube IceCube IceCube ASC IceCube IceCube IceCube	Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11 11/12		Plan Finish 02/03 11/17 11/25 12/04 11/23	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea Drill Shift/Dep Drill Shift/Dep	puty Shift lea ad/ ASC puty Lead/ M	ads	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3 4 Task # 1 2 3 4 5 6	Weekly Hi-Level Hi-Level Controllable Task type Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing Smoke/CO Monitor testing Mass Casualty Drill	IceCube IceCube IceCube IceCube IceCube ASC IceCube/ ASC IceCube IceCube	Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11 11/12		Plan Finish 02/03 11/17 11/25 12/04 11/23 TBD	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea Drill Shift/Dep Drill Shift/Dep ASC/ IceCub	puty Shift lea ad/ ASC puty Lead/ M puty Lead/ M	ads IAZ	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ
ETRICS 1 2 3 4 1 2 3 4 5 6	Weekly Hi-Level Hi-Level Hi-Level Controllable Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup Preparation / Setup	Days without an OSHA Reportable Injury OHSA Reportable Injuries/TRIR Near Miss Occurrences Task Drill Equipment/ Process Start-Up Safety Check Check and Weigh Fire Extinguishers/Fire Suppression Tanks Fire Team Walk-through E-Stop Testing Smoke/CO Monitor testing Mass Casualty Drill	IceCube IceCube IceCube IceCube IceCube ASC IceCube/ ASC IceCube IceCube	Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized Specialized	Going On- Going On- Going On- Going Plan Start 11/11 11/12		Plan Finish 02/03 11/17 11/25 12/04 11/23	Actual Finish	Resources Drill Shift/Dep MAZ Drill Shift Lea Drill Shift/Dep Drill Shift/Dep	puty Shift lea ad/ ASC puty Lead/ M puty Lead/ M	ads IAZ	12/18/23	12/25/23	01/01/24	01/08/24	01/15/24	01/22/24	01/29/24	02/05/24	02/12/24	02/19/24		Site leads/ MAZ Site leads/ MAZ Site leads/ MAZ

Safety Goals: ZERO Lost man days due to accident or injury: ZERO OSHA Reportable Injuries

23-24_Seasonal_Safety_Plan_2019-005

Final Audit Report

2022-03-17

Created:	2022-03-08
By:	Mike Zernick (zernick@wisc.edu)
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