

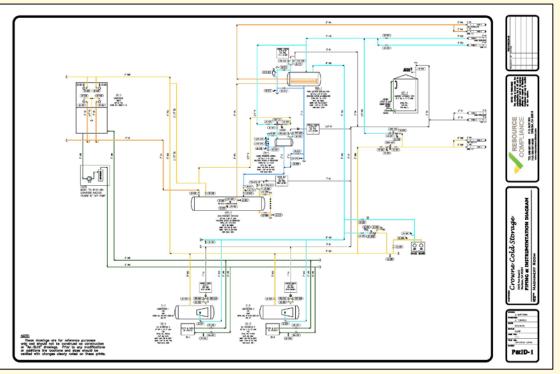
MOC/PSSR

Management of Change/Pre-Startup Safety Review



What's the goal?







Takeaways

- 1. Understand when is an MOC/PSSR needed
- 2. Understand the requirements of MOC/PSSR
- 3. Look at the nuances within CalARP MOC/PSSR
- 4. Sample MOC/PSSR checklists and scenarios



When is an MOC/PSSR needed?

Simple Questions:

- 1. Will new equipment or new models be installed (vs. 'replacement in kind')?
- 2. Would the P&IDs change?
- 3.*Would any RMP/PSM/CalARP elements change?



Requirements of Management of Change

CalARP §2760.6

(a) The owner or operator shall establish and implement written procedures to manage changes (except for "replacements in kind") to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process.



Requirements of Management of Change

Continued (paraphrased)

- Prior to any change, assure:
 - 1. The technical basis for the change;
 - 2. Impact of change on safety and health;
 - 3. Modifications and/or development of operating and maintenance procedures;
 - 4. Necessary time period for the change; and,
 - 5. Authorization requirements for the proposed change.
- Employees involved in operating a process and maintenance and contract employees
 whose job tasks will be affected by a change in the process shall be informed of, and
 trained in, the change prior to start-up.
- Process safety information shall be updated.
- Operating procedures shall be updated prior to start-up of the process.



Requirements of Pre-Startup Safety Review

CalARP §2760.7

- (a) The owner or operator shall perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information.
- (b) The pre-startup safety review shall confirm, as a verification check, independent of the management of change process, that prior to the introduction of regulated substances to a process:
 - 1) Construction and equipment is in accordance with design specifications;
 - 2) Safety, operating, maintenance, and emergency procedures are in place and are adequate;
 - 3) For new stationary sources, a PHA has been performed and recommendations have been resolved or implemented before startup, and modified stationary sources meet the requirements contained in management of change, Section 2760.6; and,
 - 4) Training of each employee involved in operating a process has been completed.



Requirements of Pre-Startup Safety Review

Cal PSM

The Pre-Start Up Safety Review shall involve employees with expertise in process operations and engineering. The employees will be selected based upon their experience and understanding of the process systems being evaluated.



Comparison: CalARP Program 2 & Program 3

Program 2	Program 3	
Prevention Pro	ogram Element	
Safety Information	Process Safety Information	
Hazard Review	Process Hazard Analysis	
Operating Procedures	Operating Procedures	
Training	Training	
Maintenance	Mechanical Integrity	
Incident Investigation	Incident Investigation	
Compliance Audit	Compliance Audit	
	Management of Change	
	Pre-Startup Safety Review	
	Contractors	
	Employee Participation	
	Hot Work Permits	



MOC: CalARP Program 2 vs. Program 3

P3: Management of Change - §2760.6

- P2: Safety information must be updated when a change occurs - §2755.1(c)
- P2: Operating procedures must be updated when a change occurs -§2755.3(c)
- P2: Training is required for all employees - §2755.4

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Prevention Pro	ogram Element
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Incident Investigation	Incident Investigation
Compliance Audit	Compliance Audit
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PSSR: CalARP Program 2 vs. Program 3

P3: Pre-Startup Review - §2760.7

- P2: Safety information must be updated when a change occurs -§2755.1(c)
- P2: Training is required for all employees - §2755.4

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Prevention Pro	ogram Element
Safety Information	Process Safety Information
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CUPA Coordination

MOC | Facility Name

Chad Collin <ccollin@resourcecompliance.com> Draft

Thu, May 10, 2018 at 11:35 AM

Good afternoon,

In accordance with CalARP §2745.11(1), I'm writing to inform you about IQF Freezer Upgrade at Faclity Name.

Project Scope:

Facility Name has purchased a larger Individual Quick Freeze (IQF) unit. OctoFrost Model 12/2 increases production from 5,000 lbs/hr to 16,000 lbs/hr. The new unit will run at 60% capacity with the existing compressor/condenser system. Facility may update refrigeration later (compressor, condenser). Facility personnel will position the IQF unit. Refrigeration contractor has been hired to tie in ammonia lines and start up.

I have already initiated the MOC and will be coordinating with all parties to ensure all necessary documentation is on file and tracked to completion.

If you have any questions, let me know.

that the procedures have been established.



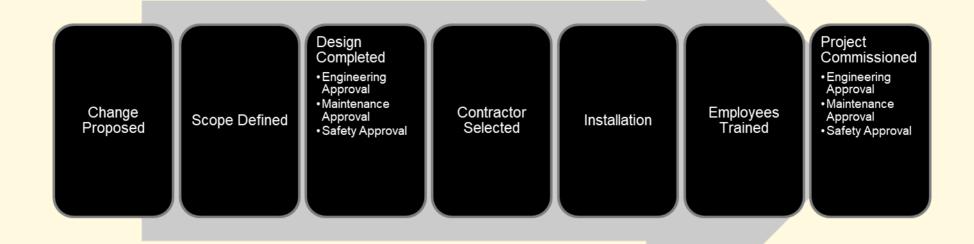
How is the MOC/PSSR completed?

- 1. Procedures & checklists
- 2. Coordination between:
 - Safety team
 - Operators
 - Installing contractor
 - o Engineer
 - o Consultant
 - o CUPA





How is the MOC/PSSR completed?





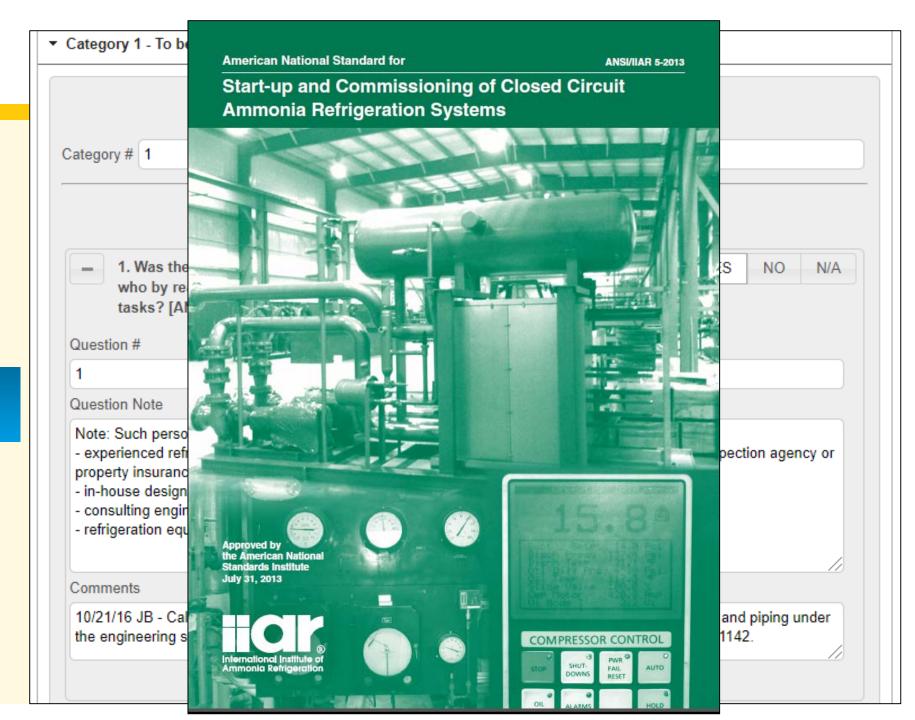


Section # 2 Section Name RMP-PSM Elements Affected			
Description			
The purpose of this section is to determine which RMP-PSM elements are affected by the cha	inge.		
nstructions			
Mark each question below as 'Yes', 'No', or 'N/A'. Any RMP-PSM elements affected by the chefore this section can be approved.	ange must l	oe updat	ted
pproved By: Date:			
Add new question Toggle Unanswered Show Questions			
1. Does the change require process safety information to be gathered or updated?	YES	NO	N/A
+ 2. Does the change require a process hazard analysis to be performed?	YES	NO	N/A
3. Does the change require the process hazard analysis policy to be updated?	YES	NO	N/A
4. Does the change require operating procedures to be created or updated?	YES	NO	N/A
5. Does the change require employees to be trained?	YES	NO	N/A
6. Does the change require the training policy to be updated?	YES	NO	N/A
7. Does the change require the mechanical integrity policy to be updated?	YES	NO	N/A
8. Does the change require a mechanical integrity inspection to be performed?	YES	NO	N/A
9. Does the change require the incident investigation policy to be updated?	YES	NO	N/A
+ 10. Does the change require the compliance audit policy to be updated?	YES	NO	N/A
+ 11. Does the change require a compliance audit be performed?	YES	NO	N/A





PSSRWRITER





To change the process in a safe manner and update the RMP/PSM/CalARP Program as needed.

Simple Questions:

- 1. Will new equipment or new models be installed (vs. 'replacement in kind')?
- 2. Would the P&IDs change?
- 3. *Would any RMP/PSM/CalARP elements change?



Scenario 1: New Cold Room & Equipment







Scenario 2: Pressure Relief Valve Replacement







Scenario 3: Increasing the *Maximum Intended Inventory*





Scenario 4: New PSM/CalARP Coordinator

Emergency Response Program

For

Arctic Cold Storage

12582 Avenue 384 Cutler, CA 93661

Prepared by:



1.1.a. Facility Name	Facility Name Inc.	
1.1.b. Parent Company #1 Name		
1.1.c. Parent Company #2 Name		
1.2 EPA Facility Identifier	100000	
1.3 Other EPA Systems Facility Identifier		
1.4 Dun and Bradstreet Numbers (DUNS)		
1.4.a. Facility DUNS		
1.4.b. Parent Company #1 DUNS		
1.4.c. Parent Company #2 DUNS		
1.5 Facility Location		
1.5.a. Street - Line 1	11111 Avenue 101	
1.5.b. Street - Line 2		
1.5.c. City	Cutler	
1.5.d. State	CA	
1.5.e. Zip Code - Zip +4 Code	93661	
1.5.f. County	TULARE	
1.5.g. Facility Latitude (in decimal degrees)	22.487487	
1.5.h. Facility Longitude (in decimal degrees)	-120.291934	
1.5.i. Method for determining Lat/Long	Interpolation - Photo	
1.5.j. Description of location identified by Lat/Long	Process Unit	
1.5.k. Horizontal Accuracy Measure (meters)	25	
1.5.I. Horizontal Reference Datum Code	North American Datum of 1983	
1.5.m. Source Map Scale Number	24000	
1.6 Owner or Operator		
1.6.a. Name	Facility Name Inc.	
1.6.b. Phone	(559) 800-1111	
1.6.c. Street - Line 1	11111 Avenue 101	
1.6.d. Street - Line 2		
1.6.e. City	Cutler	
1.6.f. State	CA	
1.6.g. Zip Code - Zip +4 Code	93661	
Foreign Country		
Foreign State/Province		
Foreign Zip/Postal Code		
1.7 Name, title and email address of person or pos implementation	ition responsible for RMP (part 68)	
1.7.a. Name of person	Manager/Accountant	_
1.7.b. Title of person or position	Manager/Accountant	
1.7.c. Email address of person or position	name@company.com	



Takeaways

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Questions/Comments?