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Purpose

To establish and implement a management system which proactively reviews and documents all changes for MIOSHA Part 91 Process Safety Management (PSM) and EPA 40CFR68 Risk Management Processes (RMP) for the Escanaba Mill under the Management of Change (MOC) requirements.

Uncontrolled changes to processes, process chemicals, technology, equipment, procedures, and facilities can introduce potentially unsafe or hazardous conditions into the mill. Our policy is to manage changes in regulated processes according to this procedure and to assure that the level of safety originally designed into the process is maintained or enhanced.

Extent

The Management of Change (MOC) system covers facilities and procedures involved in the design, maintenance, and operation of the following covered process chemicals: anhydrous ammonia, chlorine, chlorine dioxide, methanol and turpentine. This system must be applied whenever any changes are to be made to a regulated process. The MOC system is a method of requesting, documenting, approving, and communicating changes that are to be made to a regulated process. The MOC system includes person responsible for initiating the change; proposed changes; approval levels of the change; length of time for the change (temporary) and a review process for the consequences of change.

I. Definitions

- A. *Request for Change* a form and a process that must be completed before a change can take place under the PSM and RMP standards. For our facility it will be the Area Superintendent/Manager.
- B. *Originator* the person responsible for initiating the Request for Change and completing the ROC form, this employee will be Area Superintendent/Manager for the Kraft Mill or Outside Utilities or their designee or Mill PSM Coordinator. Under Emergency MOC originator can be Area Foreman or Lead Operator.
- C. *Replacement in Kind* a direct substitution of process chemicals, technology or equipment that satisfies the design specifications. Replacement-in-kind *does not* require a request for change form
- D. *Replacement-not-in-Kind* any substitution of process chemicals, technology or equipment that is not a direct substitution. Replacement-not-in-kind *does* require a request for change form.

II. Responsibilities

- A. The Area Superintendent/Manager is the originator of the request for change and must complete the following for management of change:
 - 1. Determine that the change is:
 - a. replacement-in-kind or replacement-not-in-kind (if replacement in kind no need to continue), and
 - b. permanent or temporary
 - 2. Start Request for Change form

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- 3. Send invite for an initial Request for Change meeting for approval of change to the following (or their designee):
 Area Superintendent, Maintenance Supervision Representative, PSM Coordinator, Process Control Representative (if necessary for the change).
- 4. Tracking documentation
- 5. Ensuring all necessary reviews and preliminary estimates are complete.
- 6. Assist in updating all documentation (i.e., P&IDs, PSI, PHA, SOPs, etc.).
- 7. Ensure all affected employee are properly trained.
- 8. Ensure Pre-Start-up Safety Review is completed.
- 9. Properly notify all affected employees using the Notice of Change form
- 10. Complete Request for Change form and forward to PSM Coordinator.

B. Maintenance Representative must:

- 1. Participate in meetings on MOC
- 2. Assist in updating documentation that pertains to their area (e.g., Mechanical Integrity and P&IDs).
- 3. Serve as technical advisor to Area Superintendent/Manager
- 4. Assist with training affected employees

C. PSM Coordinator must:

- 1. Participate in meetings on MOC
- 2. Assist Area Superintendent in monitoring progress of MOM and Request for change.
- 3. Assist with training affected employees and updating procedures and SSOPs.
- 4. Assist in updating all documentation (i.e., P&IDs, PSI, PHA, SOPs, etc.).

D. Process Control Representative must:

- 1. Participate in meetings on MOC (if necessary)
- 2. Serve as technical advisor to Area Superintendent/Manager
- 3. Assist in updating documentation that pertains to their area

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Step	Who Does It	Action
1	Area Superintendent/ Manager in the Kraft Mill or Outside Utilities or PSM Coordinator (also known as the <i>originator</i>)	Identify the change.
2	Originator	Determine that the proposed modification is a change (see examples and end of procedure) and not a "replacement in-kind." IFit is a replacement-in-kind THENthe change can be made without any further action. No additional process safety management documentation is required. IFthe proposed modification is not-in-kind. THENcomplete a "Request for Change" form and route the form to the appropriate reviewers/approvers.
3	Originator	Obtain a Request For Change (RFC) form and fill that information which is available.
4	Originator	Send invitation to representatives from maintenance, safety and process control (if necessary).
5	Originator, Maintenance Rep, PSM Coordinator (or Safety Manager) and Process Control Rep (if necessary)	Hold initial meeting to explain request for change. Have pertinent information available. Group will approve or deny based upon information present (additional data collection may be required, which could postpone approval) IFthe Request for Change is not approved, THENthen the group will determine a viable option, if necessary. In the event the RFC is denied a copy will be given to
6	Originator, Maintenance Rep, PSM Coordinator (or Safety Manager) and Process Control Rep (if necessary)	the PSM Coordinator for the records. Work can not begin until at least three signatures are on the Request-For-Change form under initial signatures.
7	Originator, Maintenance Rep, PSM Coordinator (or Safety Manager) and Process Control Rep (if necessary)	If the approved change has taken place, determine if there are any training, documentation, safety, health or environmental concerns that must be addressed before startup. Conduct Pre-Startup Safety Review (if required)
8. 8 9.	Originator Originator, Maintenance	Notify the affected employees using the Notice of Change form Update all PSM documentation with the change involved.
0).	Rep, PSM Coordinator	openio in 1 211 documentation with the change involved.

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VI. MOC for Emergency Management of Change

In an emergency situation, the normal MOC procedure may not be adequate to allow changes quickly to prevent hazardous condition from occurring. In emergency situations, this emergency MOC procedure must be followed.

Step	Who Does It	Action
1	Originator (Area Foreman	Ask the following three (3) questions to determine if it is an
	or lead operator)	emergency change:
		1. Is the change required NOW to avoid personal injury or
		equipment damage?
		2. Is the change required NOW to avoid adverse impact to the
		environment or the community?
		3. Is the change required NOW to avoid severe economic
		penalty?
		If f.d. d
		If any one of the three questions is answered with a <u>"YES"</u> , then
2	Originator (Area Faraman	an emergency change will need to be initiated.
2	Originator (Area Foreman or lead operator)	IF the emergency change happens after normal business hours THEN the Area Foreman will need to monitor the emergency
	of lead operator)	change until the first regular shift during normal business hours.
IMPOD	TANT! For an amargancy o	hange after normal business hours, an emergency team needs to be
		change has been identified. The Team should be composed of at
		ut the process, one of which should be an operator.
3	Originator (Area Foreman	IFthe emergency change is performed <i>after business hours</i>
3	or lead operator)	THEN inform the Area Superintendent and Safety of the
	or read operator)	corrective action taken on the regulated process.
		corrective action taken on the regulated process.
4	Originator (Area	IFthe request for change is an emergency change during
4	Foreman or lead	business hours
	operator)	THENthe area superintendent with the help of the
	operator)	maintenance supervisor will approve the emergency change.
5	Originator (Area	IFif is determined not to be an emergency
	Foreman or lead	THENfollow the normal procedure.
	operator)	r
6	Originator	Complete the Request for Change form (within 48 hours) for
		emergency changes, follow Step 5 above.
7	Originator	Notify the affected employees using the Notice of Change form
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VII. MOC Examples: Replacement-in-Kind Vs Replacement-not-in-Kind

	Changing a pump operating speed above or below the original operating limits.
Example 1:	
Operating	Operators must have the flexibility to maintain an operation within the safe operating
Parameters	parameters (pressure limits, temperature ranges, flow rates, etc.). However, any
	intentional change or operation outside of the established control limits would
	require an approved "Request for Change".
	Changing the pipe internal diameter size from smaller to larger in order to
Example 2:	achieve a higher flow capacity.
Process	Yield or quality changes including: production rates, raw materials, catalysts,
Technology	operating conditions, equipment availability, new equipment or new product
	development would require an approved "Request for Change".
	Substituting the original specified gasket material in a flanged connection to
Example 3:	achieve a better seal.
-	
Equipment	Equipment changes including: material of construction, equipment
	specifications, piping pre-arrangements, valve settings, experimental
	equipment, computer program revisions and changes in alarms and interlocks
	would require an approved "Request for Change".
	Re-routing a pipeline to allow more room for process equipment.
Example 4:	
	If materials and sizes are not changed and the new route does not affect system
Replacement- In	operation, then the change does not require a "Request for Change".
Kind	
	Using an acceptable replacement pump seal as specified by the pump
Example 5:	manufacturer.
Replacement-In	A replacement part that meets all applicable standards and codes, is similar in
Kind	design and function AND that is documented as acceptable by the manufacturer
	would be considered "IN KIND" and does not require a "Request for Change".
	Constructing a mezzanine around process equipment to allow for maintenance
Example 6:	to access the equipment.
Replacement-In	If a new structure does not change or interfere with safe system operation, then
Kind	it does not require a "Request for Change".

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Request for Change		Department: RFC No.:		
Originator:		Тур	pe of Change Requested	
Date:	Permanent:			
Description and Purpose of the Change	Temporary: Expiration Date:		Emergency Change Approvals	
1. Equipment/Piping 2. Instrumentation/Electrical 3. Facilities 4. Process Technology	Emergency:	Originator: Affected Area Supervis	sor/Foreman:	
5. Operating 6. Chemical Inventory 7. Project Design 8. Other		Date: Area Foreman/Tour Ma Date:	laint. Foreman/Operator w/Process Knowledge:	
Describe the Proposed Change:				
Technical Basis for the Change:				
Describe Impact on Process or Personnel, Sa	afety and/or Environment:			
INITIAL REVIEW AND APPROVAL TO PROCEE	ED.			
Area Superintendent:	Date:	Safety Department Rep	epresentative: Date:	
Maintenance Representative:	Date:	Process Control Repre	esentative (if necessary): Date:	
	PROCESS	HAZARD ANALYSIS (If	f Required)	
PHA Assigned To:		Date PHA Completed:		
	PRE-START	TUP SAFETY REVIEW (II		
PSSR Assigned To:		Date PSSR Completed	d:	
	DOCUN	MENTATION TO BE UPD		
Check Those That Apply:		Completion Date	Responsible for Completion	
Operating Procedures Emergency Procedures				
Mechanical Maintenance Procedures				
Verify Design Specification Process Safety Information				
Material Safety Data Sheets				
TRAINING/COMMUNICATION				
Describe the Training Conducted and Date Completed:				
Individual Responsible for Conducting Training: Documentation of Training must be retained by Area Trainer				
		FINAL APPROVAL		
Area Superintendent:			Date:	

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NOTICE OF CHANGE FOR A HIGHLY HAZARDOUS CHEMICAL PROCESS

According to the OSHA regulation 29 CFR 1910.119 concerning Process Safety Management of Highly Hazardous Chemicals, a change is to be made and in the following covered process:

- □ Kraft mill Chlorine Dioxide (R8) System including Methanol
- □ Turpentine Recovery System
- Waste Water Treatment Anhydrous Ammonia System
- Water Treatment Chlorine System
- Sanitary Plant Chlorine System
- Bay Pump Station Chlorine System

A copy of this Notice of Intended Change shall be posted in the covered area for a minimum of four (4) weeks.

MOC#: Description of Change:	Implementation Date:		
SignedOriginator of Change	Date		
TitleOriginator of Change			
Copy: PSM Coordinator Maintenance Representative Copy Posted in Covered Area			

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