



Risk Ranking for MOC's

EHSS-Management of Change Program – Appendix D

The following matrix provides information for the MOC process requirements based on Risk Ranking related to the **Management of Change** program.

1. Intent of Risk Ranking

- a. *Risk Ranking (Impact)* for the *Change Request* answers the question, “**What risk level results in the process if the project is improperly managed?**”
- b. Mosaic uses the Risk Assessment Matrix categories for severity.

Impact	Minor	Moderate	Major	Severe	Catastrophic
Safety & Health	First aid	Recordable injury or illness	Lost time injury or illness	Life altering injury or illness	Fatality or multiple life altering injuries or illnesses
Environmental	Any contained release of material	Event that results in pollutant being released beyond secondary containment	Event that results in quantifiable damage to the physical environment	Event that results in significant damage to the physical environment, either on or off site	Event that results in significant and persistent widespread off-site damage to the physical environment
Image	Internal impact only	Local/State/Provincial media coverage or any regulatory non-compliance with no fine	Local/State/Provincial media coverage or any regulatory non-compliance resulting in a fine	International media coverage or partial revocation of operating license	International media coverage or revocation of operating license
Business	US \$1M	US \$1M to \$10M	US \$10M to \$100M	US \$100M to \$1B	US \$1B



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2. How Risk Ranking Affects the Change Request

- a. Selected risk level results in the following assignments and requirements for Fertilizantes, Phosphates, and Potash.

Risk Ranking (Impact) Requirements	Minor	Moderate	Major	Severe
				Catastrophic
Reviews Must be Completed By	Facility selects reviewers	Corresponding subject matter expert (SME)	Corresponding subject matter expert (SME)	Corresponding subject matter expert (SME)
Process Hazard Analysis (What-if, Hazop, etc.)	Recommended	Must be completed	Must be completed	Must be completed
Management Approver (1 st round) ¹	Area Owner - Superintendent level or higher	Area Owner – Superintendent level or higher	General Manager	General Manager
	Production Coordinator level or higher (Brazil)	Area Manager level or higher (Brazil)		
Prestart Safety Review	Short Form	Long Forms	Long Forms	Long Forms
Management Approver (2 nd round) ²	Area Owner - Superintendent level or higher	Area Owner – Superintendent level or higher	General Manager	General Manager
		Area Manager level or higher (Brazil)		
Closure Questionnaire	Area Owner	Area Owner	Area Owner	Area Owner

¹ Formerly called “Approver” in Maximo

² Formerly called “Authorizer” in Maximo



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- b. Selected risk level results in the following assignments and requirements for Distribution Sites.

Risk Ranking (Impact) Requirements	Minor	Moderate	Major	Severe
				Catastrophic
Reviews Must be Completed By	Facility selects reviewers	Corresponding subject matter expert (SME)	Corresponding subject matter expert (SME)	Corresponding subject matter expert (SME)
Process hazard analysis (What-if, Hazop, etc.)	Recommended	Must be completed	Must be completed	Must be completed
Management Approver (1st round)	Area Owner – Supervisor or Superintendent	Area Owner – Supervisor or Superintendent	Area Owner – Distribution Sr. Director	Area Owner – Distribution Sr. Director
		Area Manager (Brazil)	General Manager (Brazil)	General Manager (Brazil)
Prestart Safety Review	Short Form	Long Forms	Long Forms	Long Forms
Management Approver (2nd round)	Area Owner – Supervisor or Superintendent	Area Owner – Superintendent	Area Owner – Sr. Manager	Area Owner – Sr. Manager
		Area Manager (Brazil)		
Closure Questionnaire	Area Owner	Area Owner	Area Owner	Area Owner



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- c. Selected risk level results in the following assignments and requirements for Emergency Change Requests

Risk Ranking (Impact) Requirements	Minor	Moderate	Major	Severe
				Catastrophic
Management Approver (1 st round)	Area Owner - Superintendent level or higher	Area Owner – Superintendent level or higher	General Manager	General Manager
Prestart Safety Review	Short Form	Long Forms	Long Forms	Long Forms
Management Approver (2 nd round)	Area Owner - Superintendent level or higher	Area Owner – Superintendent level or higher	General Manager	General Manager
Closure Questionnaire	Area Owner	Area Owner	Area Owner	Area Owner