

## Management of Risks to employees and contractors in EM

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Occupational Health ExxonMobil  
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## EAS (Exposure Assessment System)

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### Objective

- ExxonMobil Exposure Assessment Strategy (EAS) is a system to evaluate, analyze and manage the risks to health in a comprehensive manner.

### Purpose

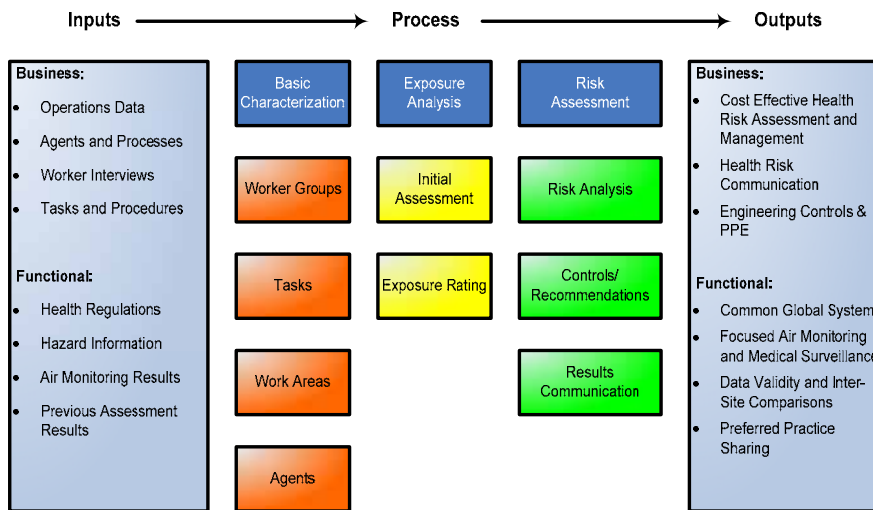
- The purpose of the EAS is to verify that the risks to Occupational Health are evaluated and managed, and that the results are documented and communicated appropriately.

### Scope

- It includes the physical and chemical agents managed during normal conditions and includes activities of contractors and employees.



## EAS Process



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## EAS Process

- The Risk Matrix is applied**  
 Exposure levels - OELs  
 HERs based on EU data - Hazard Classification System
- Availability of data for analysis at different levels of detail**  
 Assessment scenarios (Task) (e.g. Changing filters)  
 Working Groups (e.g. Process Operators)  
 Plant or Operating Unit  
 Line of Business
- Assessments maintained in an Operations Integrity Management System - OIMS**

- "A"** Above the OEL Exposure Limit
- "B"** 50% to 100% of the Exposure Limit
- "C"** 10% to 50% of the Exposure Limit
- "D"** Nil to 10% of the Exposure Limit
- "E"** Nil - No Exposure

		Exposure Rating				
		A	B	C	D	E
Health Effect Rating	I		Heating Protection	BENZENE	CHANGE FILTERS	
	II	NOISE		NOISE		
	III		COLLECT SAMPLES			
	IV					

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## EAS Validation Process

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### Stage 1 – Comparing global data for key tasks (21)

- Adjust input data when required
- Select the contractors' tasks that should be included

### Stage 2 - Comparison with similar data at global level

- Document the differences
- Adjust the data where differences are found.



### Stage 3 – The validation of data of the EAS provides:

- A basis to compare the effectiveness of the controls in each unit to reduce the exposure.
- Recommendations consistent with the controls of each operating unit.
- Basis for calculation of the Occupational Health Performance indicators

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## Occupational Health Indicators

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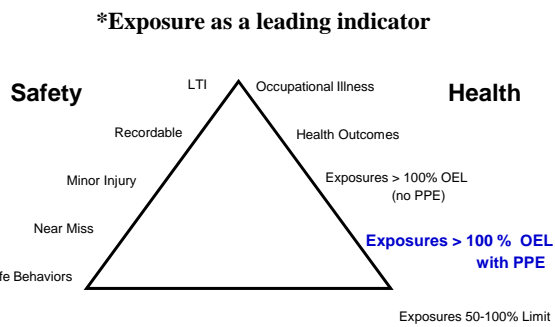
- **The existing data are compiled globally through all the operations (EAS)**
- **The risks to Health are well defined**
  - The most usual long-term exposure is noise
  - The tasks selected result from periodic exposure above permissible limits.
    - These are divided into tasks in MC and tasks in third parties.
    - They result from the continuous use Respiratory Protective Equipment (RPE)
- **Measurements of Performance in Occupational Health (OH)**
  - The degree in which the Plants consistently identify and manage Occupational Health risks.
  - Percentage of use of RPE versus the use of engineering controls or procedures.
    - Enables comparison using the same practices.
    - Strengthens attention for the effective use of RPE
    - Maintains the focus on chronic risks



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## Health Performance Indicators

- Based on exposure as basic indicator. If there is no exposure, there are no injuries related to work.
- Operations are standardized in order to compare them (e.g. TRIR)



### Long Term Average

% of Workers above OEL/Required to use PPE based on long term exposure

(% Workers = # / Work Hours x 200,000)

### Task

% of Workers above OEL / required to use RPE based on task exposures

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## Complementary activities for Prevention of Risks at the workplace

- Exposure Monitoring (By Annual Plan) :
  - Hydrocarbons, noise and other agents.
  - Regulatory Compliance
  - Verification Activities Planned
- Evaluation of Gaps in Global Practices
- EAS Verification
- Specific issues required by the lines of business or SHE contacts.



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## Current Initiatives

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### Medicine and Occupational Health



#### Occupational Health Global Practices

Occupational health risks by type of operation and control practices to address site risks for business lines and MOH staff



#### Malaria Control Program & Malaria Visa

Malaria risk awareness for employees and contractors; resources to help deal with the risks; access to Malaria Control Program documents



#### Travel Health Resources

Travel health information and resources for business travelers, expatriates, rotators and MOH staff



#### Corporate Pandemic Flu Information

Information on pandemic flu, updates and announcements



#### Emergency Preparedness & Response

Activities and procedures to meet emergency preparedness and response commitments



#### Current Health Issues

Travel - V/What's New Updated weekly  
Avian Flu \$ August 2007 reviewed  
Dengue Information sheet 7 May 2007 reviewed



#### MOH Operating Practices & Technical Library

Internal MOH practices including clinical and industrial hygiene procedures; technical references and training; administrative and financial references



#### Health Myths

Verify the content of health-related chain emails

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