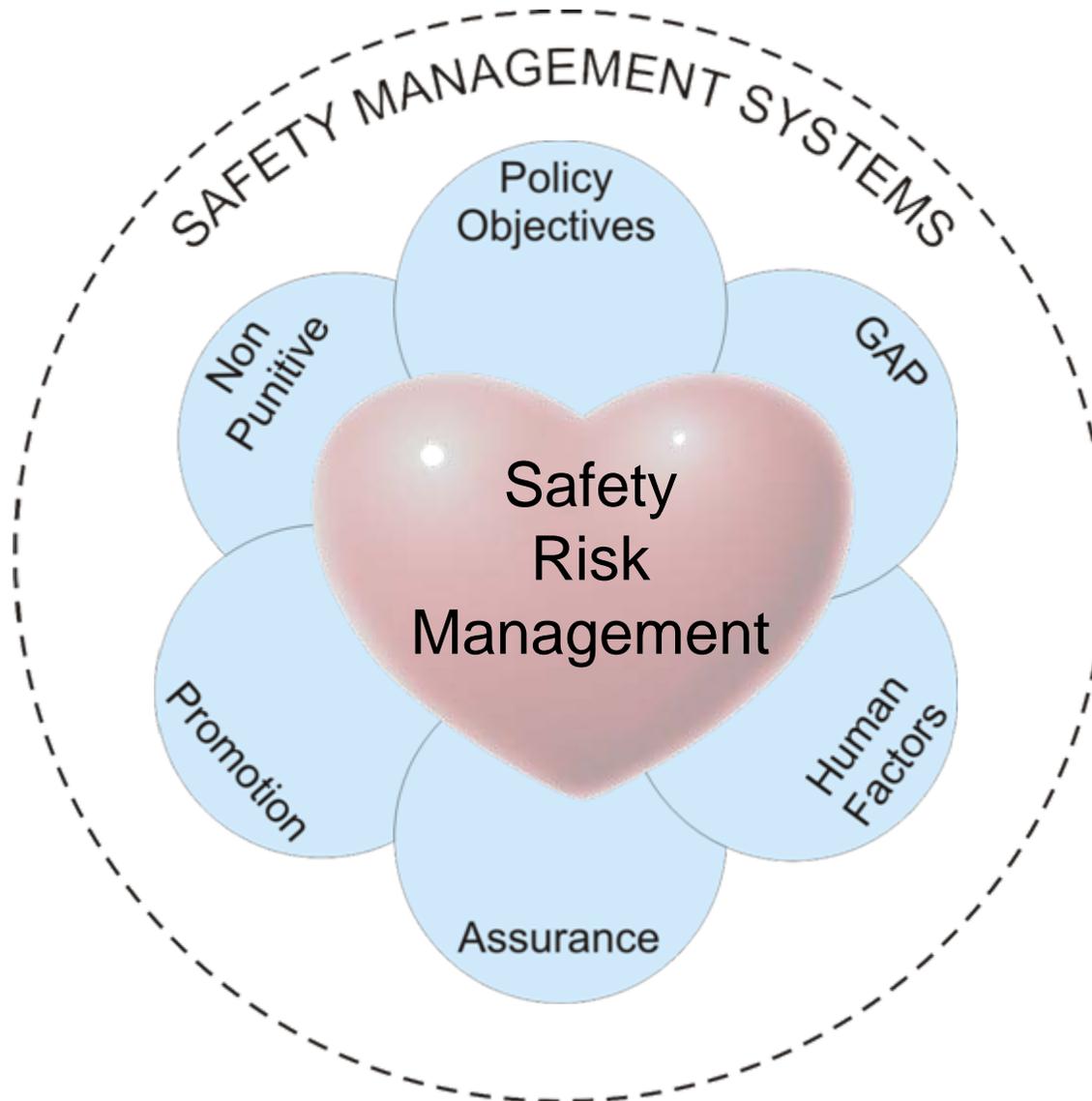


Austin Bergstrom International Airport Safety Risk Management Overview and Training Exercises, “Train the Trainer”

September 16, 2008

Presented by: Jacobs Carter Burgess SMS Project Team

What is a Safety Management System?



What is Safety Risk Management?

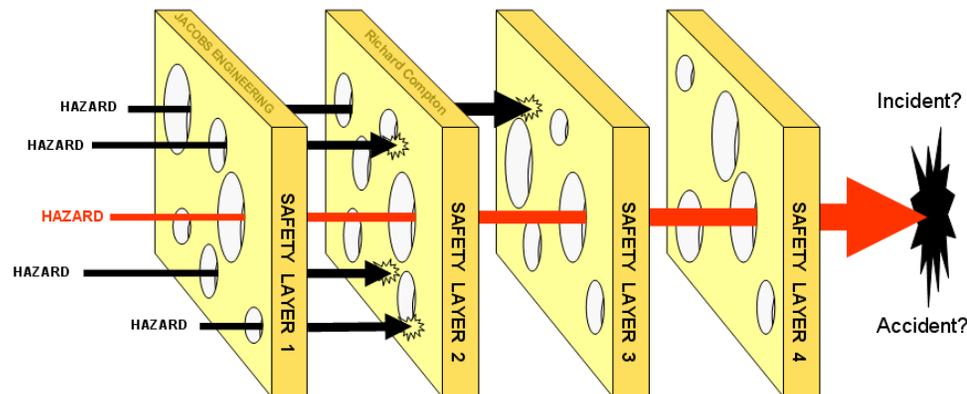


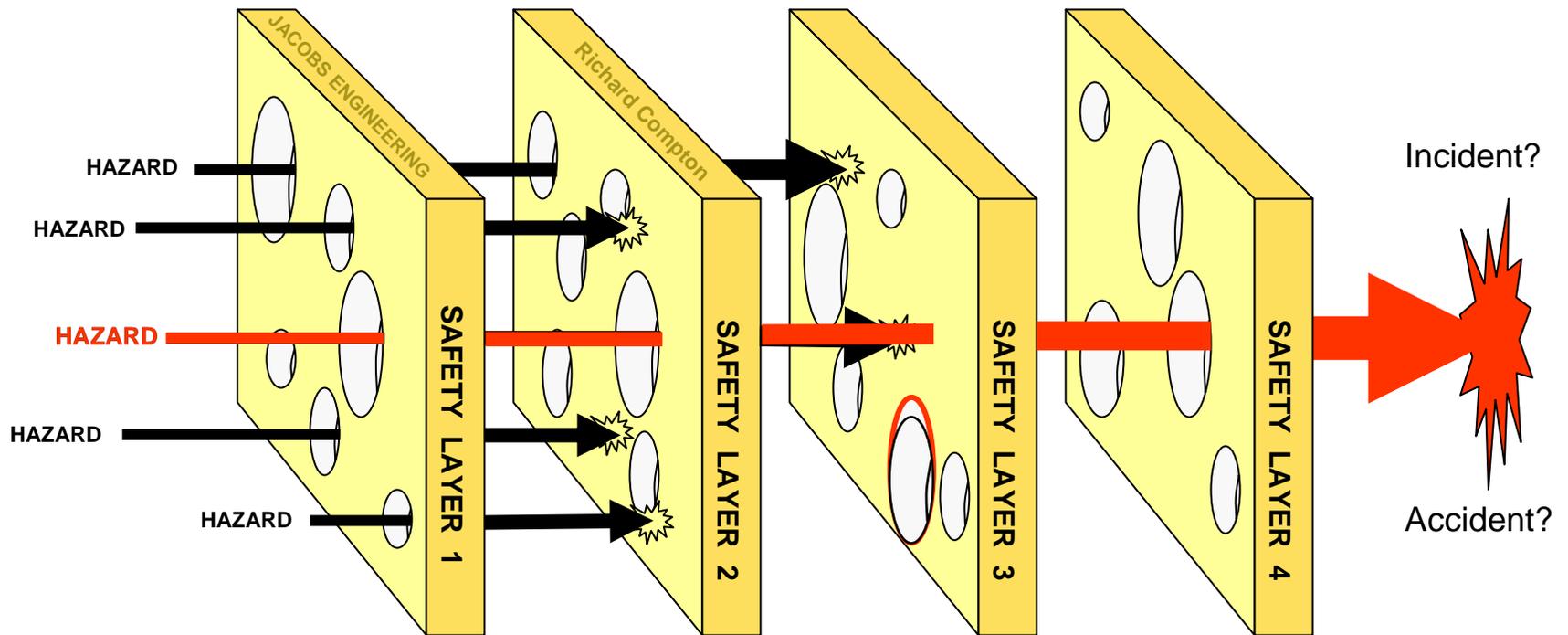
- Safety Risk Management means being both reactive from a historical perspective and proactive from a speculative or anticipatory analysis.
- By reviewing past occurrences and considering changes in progress, a probability and severity assessment can be utilized to mitigate hazards and potential hazards to an acceptable level.

Safety Risk Management, continued



- The SRM process is utilized when changes in a system (i.e. the airports' configuration, operation, procedures, new equipment, expanded or personnel responsibilities, etc.) are either planned or occur.
- Any changes to an existing system or systems can introduce adverse hazards which may result in incidents or accidents.





Reason Swiss Cheese Multi-Layer Safety Model



- Risk is the assessment of the likelihood of occurrence and the predictable severity of each identified hazard.
- SRM provides the process for evaluation of the various risks and the systematic analysis, mitigation and corrective course of action to:
 - Either eliminate the risk(s), or
 - Reduce the probability and severity of the risk(s) to an acceptable level.



- Examples when SRM would be required are:
 - Configuration changes at the airport, whether temporary or permanent;
 - The design of new systems, procedures, and/or organizations;
 - Any proposed changes to an existing operation, procedures, equipment, personnel and/or environment; or
 - Hazards identified during operations or safety assurance functions, such as audits or safety reports.

Safety Risk Management Process



- Once hazards have been identified, they are assessed and analyzed for their potential impact on safety.
- Mitigation of the potential hazard is developed to minimize the risk to an acceptable level.
- The mitigation of the risks, development of revisions, modifications, contingency arrangements and the implementation of mitigation strategies, requires conscious management decisions to approve, fund, schedule, and implement one or more risk strategies.



The Safety Risk Management Process consists of five functional phases:

1. Describe the System, Procedure, or Organization
2. Hazard Identification
3. Analyze the Risk
4. Assess the Risk
5. Treat the Risk & Monitor for Effectiveness



Describe the System, Procedure, or Organization;

- Project, procedure, activity, equipment, and/or organization
- In describing the system (current & proposed):
 - Define, the configuration, use, intended operation, function and/or task descriptions
 - Define what changes are proposed
 - Define, the scope, objectives and implementation interactions



- Hazard Identification
 - All potential hazards will be listed,
 - Hazard identification comes from;
 - Planning meetings,
 - Reports, safety concerns,
 - Data collection & assessment,
 - Locally developed “Check-Lists”, or
 - “Lessons Learned” and previous experiences

Hazard Identification Table



- Each hazard that is identified will be added to the list, without pre-judgment.

ID	Description	Cause
1	Construction haul route crosses active taxiway	No Flagman
2	Construction equipment height at the work area	Contractor could use wrong height equipment
3	Temporary FAA maintenance personnel route will cross an active taxiway	Assume FAA understands the rules
4		
5		



- Analyze the risk for each hazard
 - Group hazards for commonality
 - Re-write for consolidation
 - Ask the open-ended questions
 - What if....?, Why did....?
 - Determine the trigger mechanisms and their various outcomes
 - Identify existing controls

Hazard Identification Table



ID	Description	Cause
1	Construction haul route crosses active taxiway	No Flagman
2	Construction vehicle height at the work area	Contractor could use wrong height equipment
3	Temporary FAA maintenance personnel route will crosses an active taxiway	Assume FAA understands the rules

Consolidate common hazards!

Preliminary Hazard Analysis Worksheet

SRMDR Hazard Tracking Number:

ID	Description	Cause	System State	Potential Effect	Severity	Existing Control(s)	Likelihood	Current Risk	Recommended Safety Mitigation	Residual Risk	Comments
1	Vehicles crossing active Taxiway "A" between "A1" and "A2"	Unrestricted access									



Assess the hazard

- Assess the severity and likelihood of occurrence by use of Risk Matrix
- Prioritize the risk and results from the Risk Matrix

Preliminary Hazard Analysis Worksheet

SRMDR Hazard Tracking Number:

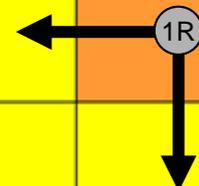
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1	Vehicles crossing active Taxiway "A" between "A1" and "A2"	Unrestricted access										

Safety Risk Management - Matrix



- Mitigating Risk to an acceptable level

Predictive Risk Matrix		LIKELIHOOD			
		Improbable	Remote	Probable	Frequent
S E V E R I T Y	Catastrophic	Yellow	Orange	Red	Red
	Major	Yellow	Yellow	Orange	Red
	Minor	Green	Yellow	Yellow	Yellow
	Minimal	Green	Green	Green	Green



Red	HIGH RISK
Orange	MODERATE HIGH RISK
Yellow	MEDIUM RISK
Green	LOW RISK

LIKELIHOOD LEVELS	
Frequent	Probability happening from a daily to weekly basis
Probable	Probability happening from a weekly to monthly basis
Remote	Probability happening on an annual basis
Improbable	Probability assumed unlikely to occur

SEVERITY LEVELS	
Catastrophic	Loss of aircraft, loss of structures, fatalities
Major	Damage to aircraft, structures, serious injuries
Minor	Slight damage, functional impairment, slight injuries
Minimal	Miniscule operating/personnel costs and damages



- Mitigate/Treat the Risk
 - Identify risk mitigation options
 - Hazard reduction or elimination
 - Select best-suited option & implementation strategy
 - As Low As Reasonably Possible (ALARP)
 - Identify monitoring strategies for effectiveness of mitigation
 - Identify management level(s) for risk mitigation decisions



○ Hazard Reduction or Elimination

- Design and/or modify the hazard for minimization or elimination
- Reduce exposure and severity – physical guards or barriers
- Warnings, advisories, and/or signals
- Procedural and/or operational changes
- Training for hazard avoidance
- Upon completion, re-apply SRM process on the substituted or eliminated risks
- Track changes to system, procedure, equipment, personnel and/or environment through data capture, monitoring, reporting, and debriefs



Decision Reporting

Safety Risk Management – SRMDR



- Safety Risk Management Decision Report (SRMDR)
 - The development of a SRMDR, is the formal documentation of SRM decisions.
 - Each SRMDR must:
 - Describe the hazard and analysis process
 - Explain mitigating options and implementation strategy
 - Identify the responsible management organization for this task or activity
 - Identify stakeholders for implementation, communications, and training requirements
 - Identify monitoring strategies for effectiveness of mitigation



SRMDR Supplemental Hazard Analysis Worksheet

(To be completed for each identified hazard)

Date:

Hazard Tracking Number:

Hazard Element Number:

Hazard Description:

Cause of Hazard:

System State:

Possible Effect:

Human Factors:

Existing Controls or Requirements:

Severity:

Severity Rational:

Likelihood:

Likelihood Rational:

Current/Initial Risk:

Recommended Mitigation:

Predicted Residual Risk:

Enhancing our Safety Culture through Safety Management System Processing

ABIA - Safety Risk Management Decision Report (SRMDR)

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 8. Trigger mechanisms
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 10. Human Factors:
 11. Risk Assessment:
 - a. Severity
 - b. Likelihood
 12. Mitigation and/or Treatment of Risks:
 13. Implementation Strategies and Timelines
 14. Communications and Training Requirements:
 15. Monitoring and Tracking Responsibility:
- Safety Risk Management Decision Report Approval:**

ABIA SMS Coordinator		Approval Date	
Is Director Level Approval Required?		Yes / No	
ABIA Director of Operations		Approval Date	
ABIA Director of Maintenance		Approval Date	

Enhancing our Safety Culture through Safety Management System Processing



SRMDR Supplemental Hazard Analysis Worksheet

(To be completed for each identified hazard)

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Hazard Description:

Cause of Hazard:

System State:

Possible Effect:

Human Factors:

Existing Controls or Requirements:

Severity:

Severity Rational:

Likelihood:

Likelihood Rational:

Current/Initial Risk:

Recommended Mitigation:

Predicted Residual Risk:

Enhancing our Safety Culture through Safety Management System Processing

Date:

Hazard Tracking Number:

Hazard Element Number:

Hazard Description:

Cause of Hazard:

System State:

Possible Effect:

Human Factors:

Existing Controls or Requirements:

Severity:

Severity Rational:

Likelihood:

Likelihood Rational:



- Simplified, or
- Expanded

ABIA - Safety Risk Management Decision Report (SRMDR)

ABIA - Safety Risk Management Decision Report (SRMDR)

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Enhancing our Safety Culture through Safety Management System Processing

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7. Risk Analysis:
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8. Trigger mechanisms
 - a.
9. Existing controls
 - a.
10. Human Factors:
 - a.
11. Risk Assessment:
 - a.
 - b. Severity
 - i.
 - c. Likelihood
 - i.
12. Mitigation and/or Treatment of Risks:
 - a.
13. Implementation Strategies and Timelines



- Safety Risk Management Decision Reports should be completed by the SMS Coordinator
- Approvals of SRMDR's should be at the division head level or above.
- Approval of the SRMDR certifies that:
 - It was developed properly.
 - Hazards were systematically identified.
 - Risks were appropriately assessed, mitigated and the risks are acceptable



Safety Risk Management (SRM) Training



- 2 Projects Planned for SRM Determinations
 - #1 - Roadway within Runway Clear Areas
 - #2 - ABIA identified project



Training Exercise #1

Roadway

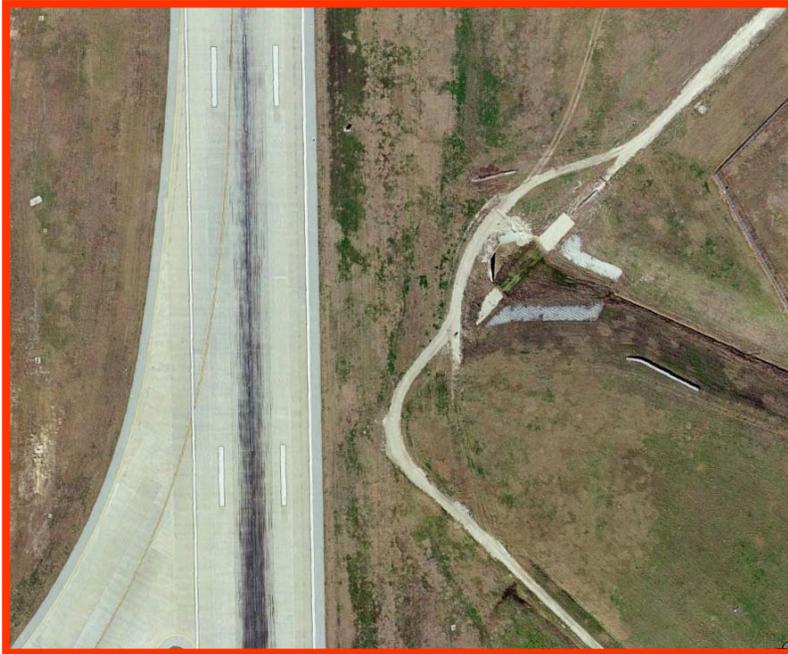
within

Runway Airport Operations Areas

Training Exercise #1 – Project Area



- Roadway within the Airport Operations Area



Training Exercise #1 - Issues



Roadway penetrates;

- OFZ
- RSA
- OFA

OFZ
RSA
OFA



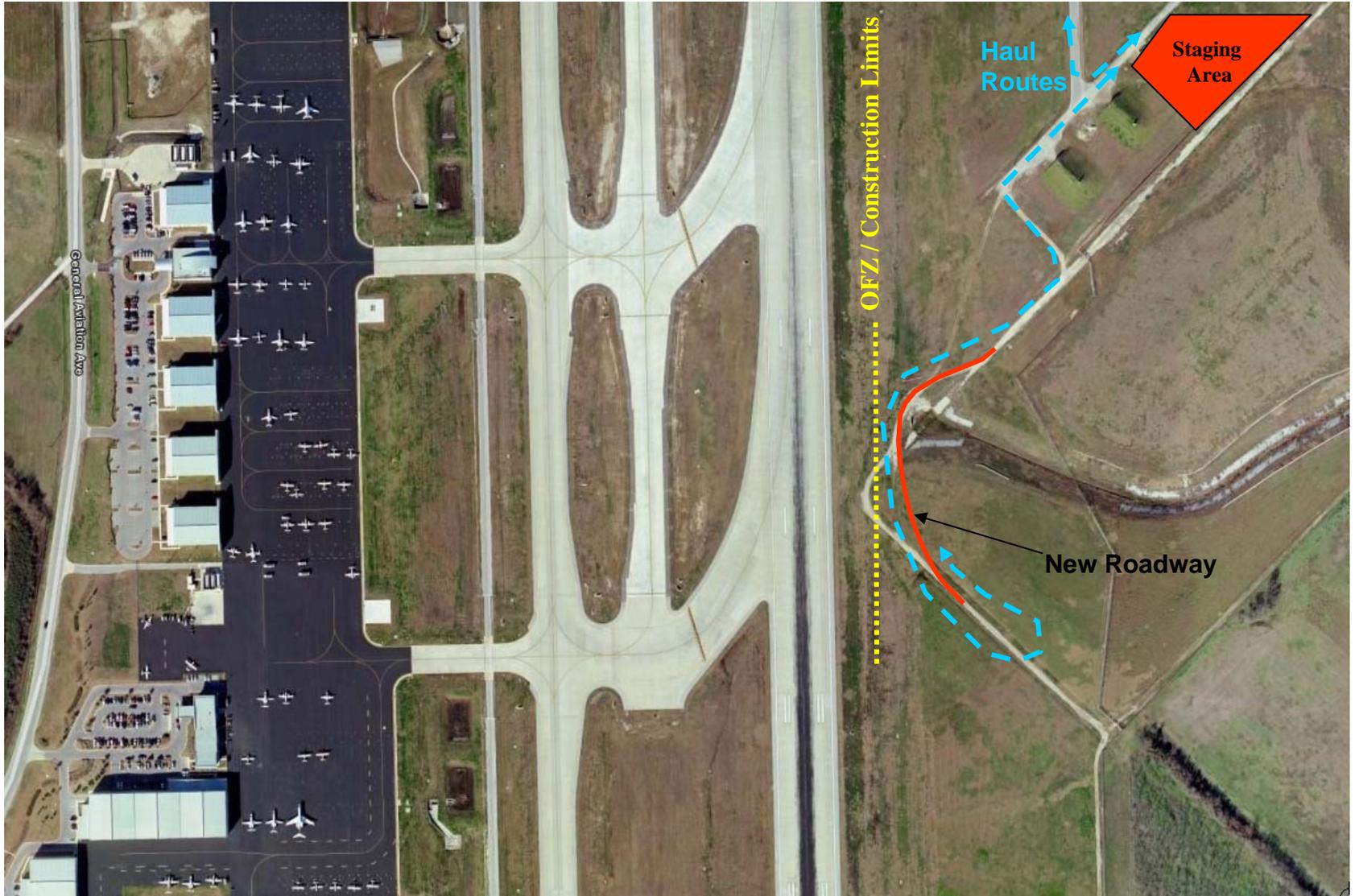
Training Exercise #1 – Detailed Issues



Training Exercise #1 – Project Access



Training Exercise #1 – Project Plan



Populating the Hazard List



ID	Description	Cause
1	Staging area location	
2	Haul route	
3	Construction equipment type	
4	Runway Operations	
5	Work within OFZ, RSA or OFA	
6	Weather	
7	Low visibility	
8	Nav aids	
9	Pilot Distractions	
10	Dust	



Construction & Maintenance Checklist



✓ **Construction and Maintenance Safety Issues Checklist**

- | | |
|---|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Safety Plan (Rules for Construction and Maintenance on AOA) <input type="checkbox"/> Contractor staging area accessibility and security <input type="checkbox"/> Air Operations Area (AOA) access control and security requirements <input type="checkbox"/> Airspace Study <ul style="list-style-type: none"> <input type="checkbox"/> Imaginary Surfaces <input type="checkbox"/> Safety ILS Protection Surfaces <input type="checkbox"/> Use of temporary equipment <input type="checkbox"/> Permanent improvements <input type="checkbox"/> Environmental impacts <input type="checkbox"/> Electronic frequency emissions <input type="checkbox"/> Line of sight <input type="checkbox"/> Radar systems interruption <input type="checkbox"/> Wildlife control and management <input type="checkbox"/> Training of contractor personnel on safety and security requirements <input type="checkbox"/> Part 139 inspection of construction area <input type="checkbox"/> Issuance of NOTAMS <input type="checkbox"/> Airfield closures/restrictions <input type="checkbox"/> Use of artificial lighting systems <input type="checkbox"/> Impacts to essential power systems <input type="checkbox"/> Supplemental or temporary use of airfield marking and lighting <input type="checkbox"/> Storage and staging of construction equipment, materials, and supplies <input type="checkbox"/> Limits of construction work area(s) <input type="checkbox"/> Haul routes and escort requirements for contractor access to construction work areas <input type="checkbox"/> Owner representation during construction activities within the AOA <input type="checkbox"/> Management of contractor <input type="checkbox"/> Restrictions on work hours (day/night) <input type="checkbox"/> Meteorological limits or restrictions (poor visibility, temperature, or precipitation requirements) | <ul style="list-style-type: none"> <input type="checkbox"/> Construction or work phasing requirements <input type="checkbox"/> Airport flow – wind direction <input type="checkbox"/> Marking and lighting of work area, equipment, vehicles, excavations <input type="checkbox"/> Dust and debris control due to high winds <input type="checkbox"/> Control of FOD <input type="checkbox"/> Vacuum/sweeper requirements for paved surfaces <input type="checkbox"/> Contractor use of flag-personnel for control of workers and mobile equipment <input type="checkbox"/> Pre-coordination and approval of daily construction activities <input type="checkbox"/> Worker cessation requirements due to emergency situations <input type="checkbox"/> Construction site ingress/egress by emergency response personnel <input type="checkbox"/> Owner investigation of construction related incidents and accidents <input type="checkbox"/> Consequences of contract non-compliance of safety and security rules and regulations <input type="checkbox"/> _____ |
|---|--|

Safety Risk Management - Matrix



- Mitigating Risk to an acceptable level

Predictive Risk Matrix		LIKELIHOOD			
		Improbable	Remote	Probable	Frequent
S E V E R I T Y	Catastrophic			HIGH RISK	
	Major			MODERATE HIGH RISK	
	Minor		MEDIUM RISK		
	Minimal	LOW RISK			

LIKELIHOOD LEVELS	
Frequent	Probability happening from a daily to weekly basis
Probable	Probability happening from a weekly to monthly basis
Remote	Probability happening on an annual basis
Improbable	Probability assumed unlikely to occur

SEVERITY LEVELS	
Catastrophic	Loss of aircraft, loss of structures, fatalities
Major	Damage to aircraft, structures, serious injuries
Minor	Slight damage, functional impairment, slight injuries
Minimal	Miniscule operating/personnel costs and damages

Hazard Identification Table



ID	Description	Cause	System State	Potential Effect	Severity	Existing Control(s)	Likelihood	Current Risk	Recommended Safety Mitigation	Residual Risk	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											

Safety Risk Management - Matrix



- Mapping the Risk

Predictive Risk Matrix		LIKELIHOOD			
		Improbable	Remote	Probable	Frequent
S E V E R I T Y	Catastrophic		1R		2R
	Major			4R	
	Minor		3R		5R
	Minimal				

SRMDR Hazard Form



ABIA - Safety Risk Management Decision Report (SRMDR)
SRMDR Supplemental Hazard Analysis Worksheet
(To be completed for each identified hazard)

Date:

Hazard Tracking Number: Hazard Element Number: **1**

Hazard Description:

Cause of Hazard:

System State:

Possible Effect:

Human Factors:

Existing Controls or Requirements:

Severity:

Severity Rational:

Likelihood:

Likelihood Rational:

Current/Initial Risk:

Recommended Mitigation:

Predicted Residual Risk:

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ABIA - Safety Risk Management Decision Report (SRMDR)
SRMDR Supplemental Hazard Analysis Worksheet
(To be completed for each identified hazard) **6**

ABIA - Safety Risk Management Decision Report (SRMDR)
SRMDR Supplemental Hazard Analysis Worksheet
(To be completed for each identified hazard) **5**

Date:

ABIA - Safety Risk Management Decision Report (SRMDR)
SRMDR Supplemental Hazard Analysis Worksheet
(To be completed for each identified hazard) **4**

Date:

ABIA - Safety Risk Management Decision Report (SRMDR)
SRMDR Supplemental Hazard Analysis Worksheet
(To be completed for each identified hazard) **3**

Date:

ABIA - Safety Risk Management Decision Report (SRMDR)
SRMDR Supplemental Hazard Analysis Worksheet
(To be completed for each identified hazard) **2**

Date:

Hazard Tracking Number: Hazard Element Number:

Hazard Description:

Cause of Hazard:

System State:

Possible Effect:

Human Factors:

Existing Controls or Requirements:

Severity:

Severity Rational:

Likelihood:

Likelihood Rational:

Current/Initial Risk:

Recommended Mitigation:

Predicted Residual Risk:

Enhancing our Safety Culture through Safety Management System Processing

SRMDR Report Form



- Simplified, or Expanded.
- The SRMDR Report can be as brief or complex as need / risk demands.

ABIA - Safety Risk Management Decision Report (SRMDR)

1. Report Date:
 2. Project Name:
 3. Current System, Procedure, or Activity:
 4. Proposed Change:
 5. Project, Re-configuration, Operation, Equipment, Task or Activity:
 6. Hazard Identification (real or perceived):
 7. Risk Analysis:
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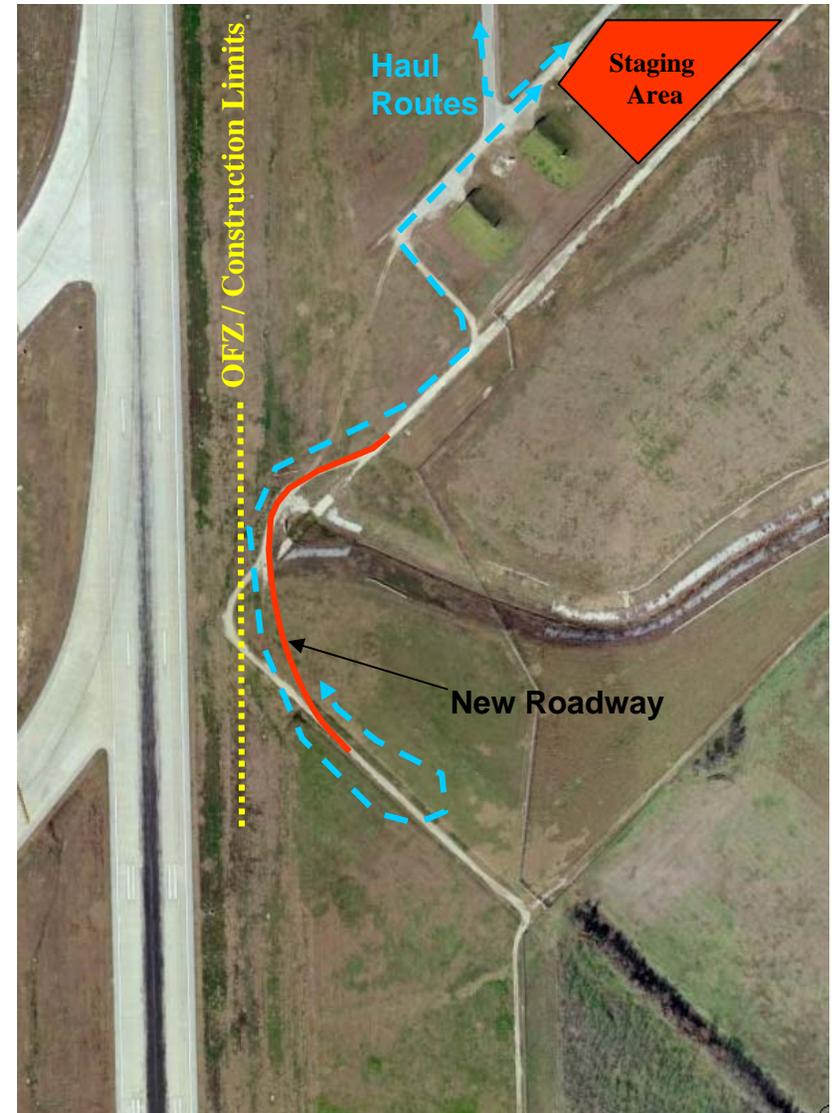
ABIA SMS Coordinator		Approval Date	
Is Director Level Approval Required?		Yes / No	
ABIA Director of Operations		Approval Date	
ABIA Director of Maintenance		Approval Date	

Enhancing our Safety Culture through Safety Management System Processing

Training Exercise #1 - SRMDR



- Hazard Identification
- Analyze Each Risk
- Assess the Risk



Training Exercise #1



- Treat the Risk
- SRM Determination
- Tracking Mitigation Effectiveness





Training Exercise #2

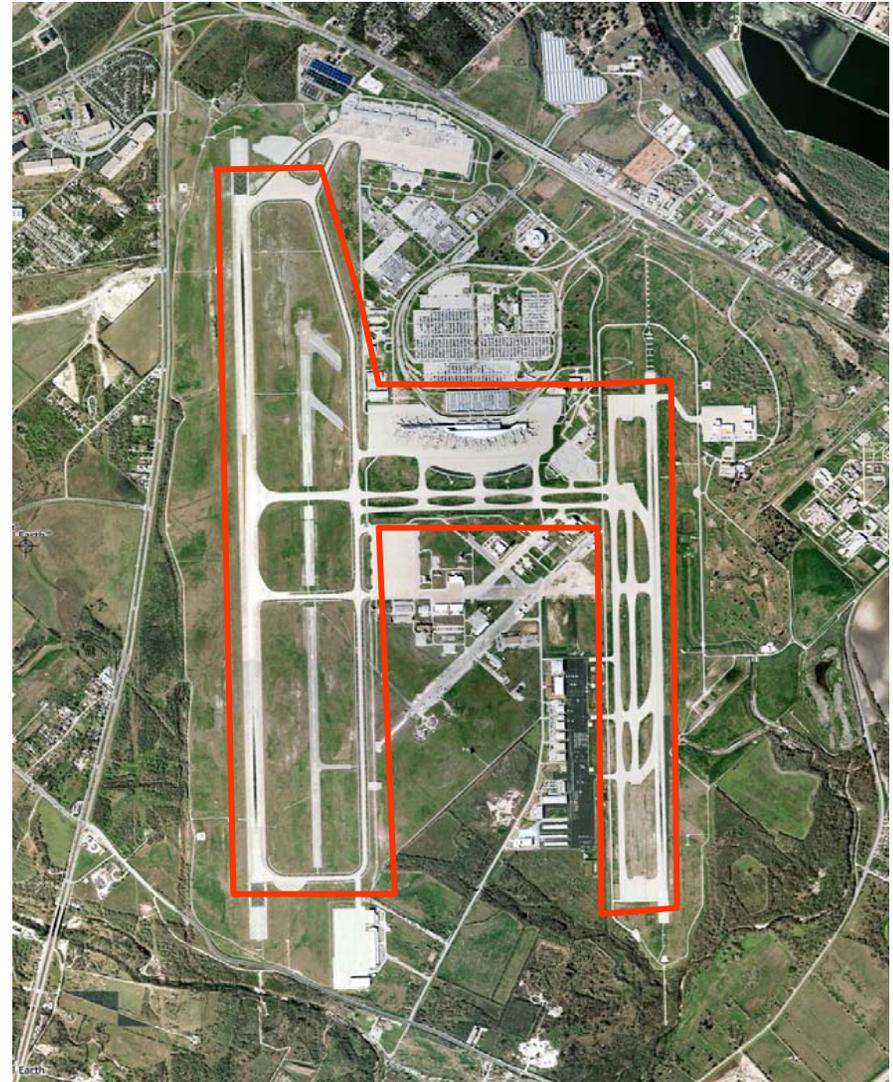
_____ Project

Training Exercise #2



○ Project Selection

- Select a project within the area identified in RED, for SRM Approval
- Not too simple
- Challenge yourself!
- Time limit – 90 minutes
- Project Scope
- Hazard List
- Hazard Analysis Worksheets
- Preliminary Hazard Analysis Worksheet
- Risk Matrix Mapping
- SRMDR



Training Exercise #2 – ABIA Project



Training Exercise #2



Training Exercise #2



Training Exercise #2



SRMDR Form – Hazard Analysis Worksheet



ABIA - Safety Risk Management Decision Report (SRMDR)

SRMDR Supplemental Hazard Analysis Worksheet

(To be completed for each identified hazard)

Date:

Hazard Tracking Number:

Hazard Element Number:

Hazard Description:

Cause of Hazard:

System State:

Possible Effect:

Human Factors:

Existing Controls or Requirements:

Severity:

Severity Rational:

Likelihood:

Likelihood Rational:

Current/Initial Risk:

Recommended Mitigation:

Predicted Residual Risk:

Enhancing our Safety Culture through Safety Management System Processing

Safety Risk Management - Matrix



Mitigating Risk to an acceptable level

Predictive Risk Matrix		LIKELIHOOD			
		Improbable	Remote	Probable	Frequent
S E V E R I T Y	Catastrophic	Yellow	Orange	Red	Red
	Major	Yellow	Yellow	Orange	Red
	Minor	Green	Yellow	Yellow	Yellow
	Minimal	Green	Green	Green	Green

High Risk
Moderate High Risk
Medium Risk
Low Risk

LIKELIHOOD LEVELS	
Frequent	Probability happening from a daily to weekly basis
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Safety Risk Management - Matrix



Mitigating Risk to an acceptable level

HIGH RISK
MODERATE HIGH RISK
MEDIUM RISK
LOW RISK

Predictive Risk Matrix		LIKELIHOOD			
		Improbable	Remote	Probable	Frequent
S E V E R I T Y	Catastrophic				
	Major				
	Minor				
	Minimal				

SRMDR Form – SMRDR Report



ABIA - Safety Risk Management Decision Report (SRMDR)

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ABIA - Safety Risk Management Decision Report (SRMDR)

1. Report Date:
2. Project Name:
3. Current System, Procedure, or Activity:
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4. Proposed Change:
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5. Project, Re-configuration, Operation, Equipment, Task or Activity:
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6. Hazard Identification (real or perceived):
 - a.
7. Risk Analysis:
 - a.
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 - a.
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10. Human Factors:
 - a.

SRMDR Form – SMRDR Report



ABIA - Safety Risk Management Decision Report (SRMDR)

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ABIA - Safety Risk Management Decision Report (SRMDR)

11. Risk Assessment:

- a.
- b. Severity
 - i.
- c. Likelihood
 - i.

12. Mitigation and/or Treatment of Risks:

- a.

13. Implementation Strategies and Timelines

- a.

14. Communications and Training Requirements:

- a.

15. Monitoring and Tracking Responsibility:

- a.

SRMDR Form – SMRDR Report



ABIA - Safety Risk Management Decision Report (SRMDR)

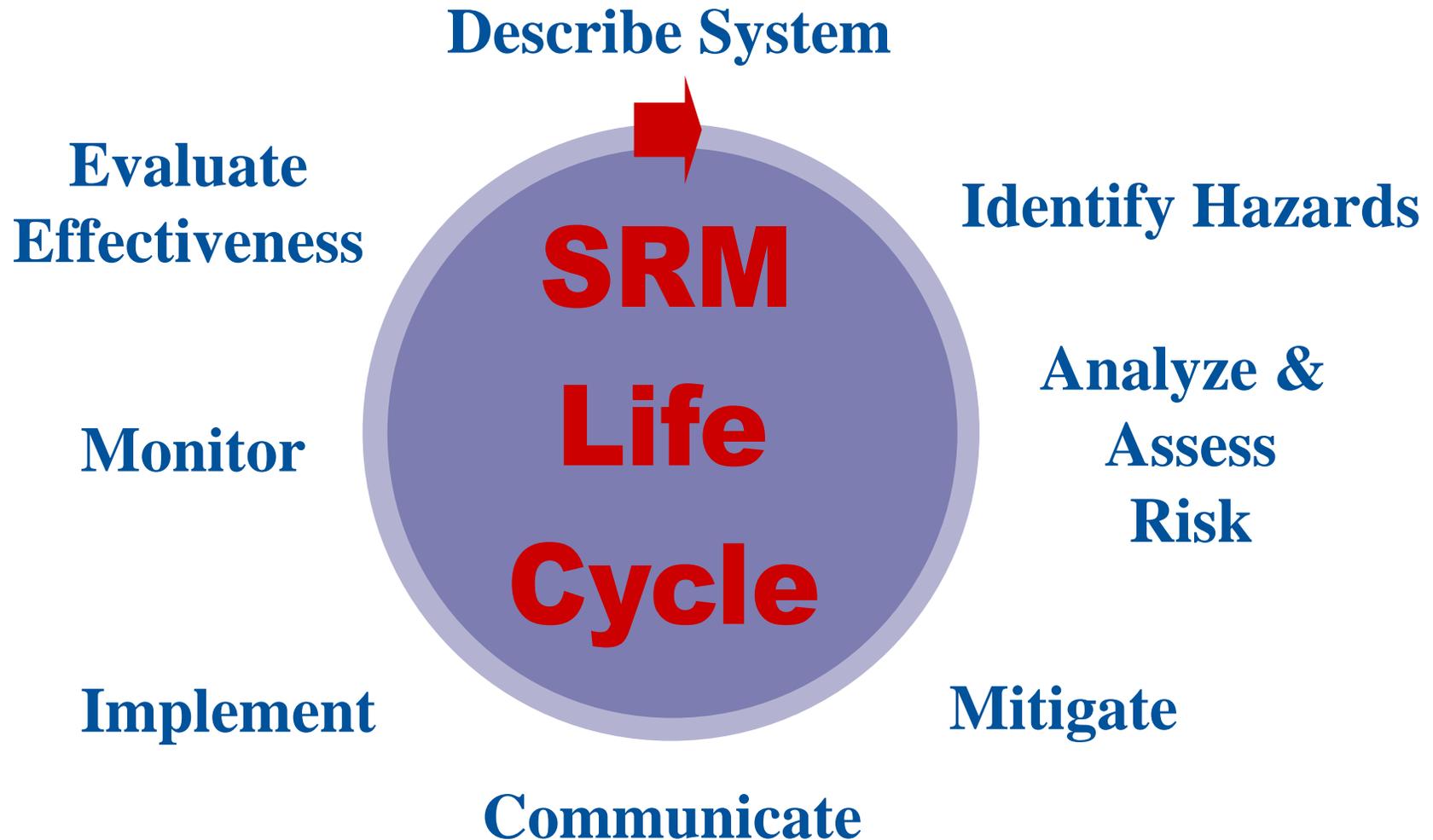
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Enhancing our Safety Culture through Safety Management System Processing



Thank You!

Your
Jacobs Carter Burgess SMS Team