Criteria for Establishing Objectives & Targets	Legal & Other Requirements	Technological Options	Financial	Business & Operational	Views of Interested Parties	Management Discretion	Total
Legal & Other Requirements		3	3	3	3	2	14
Technological Options	3		1	1	2	1	8
Financial	3	3		1	1	1	9
Business & Operational	3	3	3		1	1	11
Views of Interested Parties	3	3	3	3		1	13
Management Discretion	3	3	3	3	3		15

Instructions:

1. Add in the Criteria Descriptions on the left side (cells A2:A7).

Starting at the top row, compare the first criteria with each of the others in turn. If the value in the left column is more significant than the criteria it is being compared to, change the score in the box to "3". Otherwise, leave it as "1" and continue to the next comparison.
 Once you have completed the first row, continue with the second row. Note that the corresponding score in the bottom (green) section is automatically changed when you change the top section (red) score.

4. If your team cannot reach consensus, score the comparison as "2". You will need to manually change the corresponding bottom section score. **Risk Assessment and Projects Alignment Tool** 

Activity	Location	Impacts & Hazards	EH&S Impact	Category	<b>Operational Conditions</b>	Population at Risk	Frequency	<u>Probability</u>	<u>Severity</u>	Control Effectiveness	TOTAL SCORE for Significand	Legal & Other Requirements	x Technological Options	6 Financial	Business & Operational	C Views of Interested Partie	Management Discretion	OVERALL SCORE Establishing Objectives <u>&amp; Targets</u> ← Business Value	<u>Risk Category</u>
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Development Team:				1															

Development Team: John H. Gamble; Review Team:

 
 Revision Log

 REVISION DATE
 REVISION NO.
 REVISION AUTHORITY
 NATURE OF REVISION

 6/15/2015
 1
 EH&S Team
 Date of Original Document Issuance

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Monday, October 26, 2015

Risk Category:

B = Business Continuity

Controlled documents are maintained electronically. Printed documents are UNCONTROLLED. Prior to relying on a printed document, verify that it is current. E = Environment

H = Health

S = Safety

Kansas State Univeristy College of Agriculture

### **RISK ASSESSMENT DEFINITIONS**

#### **ACTIVITIES - RISKS - IMPACTS**

Activity		Activity within the exposure area associated with the operation of the Institution that includes the site, people and procedures. The activities can be categorized into defined tasks, geographical areas and stages in the delivery of services and planned or reactive work activities.
Location (Area of Impact)	Site Local Regional Global	Within the fence line Five miles from center of facility State Global
Environmental Aspect		Element or issue of KSU's activities, products or services that can interact with the environment.
Health & Safety Hazard		Source or situation with a potential for harm in terms of injury or illness
HSEQ Impact	Abbreviations W A N HW L NR BI SW BW EU	<ul> <li>Any change to the environment, whether adverse or beneficial, wholly or partially resulting from KSU's activities products or services:</li> <li>Water</li> <li>Air</li> <li>Noise</li> <li>Hazardous Waste</li> <li>Land (Non hazardous waste landfill)</li> <li>Natural Resources (Depletion of natural resources, i.e. electricity, natural gas, etc.)</li> <li>Business Interruption</li> <li>Solid Waste</li> <li>Biological Waste</li> <li>Energy Usage</li> </ul>
Category		Environmental Health and Safety Impact Category
RISK ASSESSMENT		
Operating Conditions	Score 1 2 3	Consider the following in determining operating conditions: Normal -The process operates as per design (Includes normal maintenance activities) Abnormal - Upsets in operation to include failures in design or use. Emergency - The process is interrupted due to emergencies such as fires, explosions, weather, etc.

## **RISK ASSESSMENT DEFINITIONS**

Population at Risk	Score 1 2 3	Individual(s) at risk, e.g., visitors, staff or near neighbors: One to nine individuals 10 to 99 individuals >100 individuals
Frequency	Score 1 2 3	The number of occurrences of the health & safety hazard or the environmental incident: Little likelihood of occurrence Infrequently occurs during the day, week or month Routinely occurs everyday
Probability	Score 1 2 3	The likelihood of the health & safety hazard or environmental incident occurring: Remote chance of occurrence Likely event could eventually occur Expect event to occur
<b>Severity</b> Account for difference in healthy worker effect	Score 1 2 3	The magnitude of the health & safety hazard or environmental impact: Negligible EH&S or Financial Impact resulting in No Recovery Time Undesirable EH&S or Financial Impact resulting in Days of Recovery and/or undesirable Media Coverage Severe or Fatality Injuries, or Financial Impact resulting in Weeks or Months of Recovery, or an Environmental Impact that depletes Non-Renewable Natural Resources and has a High Cost of Total Ownership.
Control Effectiveness	Score 1 2 3	Measure of a system used to prevent a health and safety hazard or reduce an environmental risk: Full Control - All Steady State, Upset and Emergency Operating Practices and Conditions in Place, e.g., BMPs Controls in Place - Administrative and/or Engineering Controls could be Improved, e.g., SOP Unacceptable - Redesign Operation or Provide Additional Levels of Protection Needed to Reduce Risk, e.g., PPE
TOTAL SCORE for Significance		Operating Conditions x Frequency x Probability x Severity x Control Effectiveness = For a Score of 250 or greater, proceed to the Projects Alignment Evaluation to complete the assessment.
PROJECTS ALIGNMENT		
Legal & Other Requirements	Score 1 2 3	Regulatory Drivers Impact has a minimal effect on or relationship to Legal & Other Requirements Impact has some routine effects on or relationship to Legal & Other Requirements Impact has direct and significant effect on or relationship to Legal & Other Requirements

# **RISK ASSESSMENT DEFINITIONS**

Technological Options	Score 1 2 3	<b>Technical Feasibility</b> Impact has a minimal effect on or relationship to Technological Options Impact has some routine effects on or relationship to Technological Options Impact has direct and significant effect on or relationship to Technological Options
Financial	Score 1 2 3	Financial Feasibility Impact has a minimal effect on or relationship to Financial Impact has some routine effects on or relationship to Financial Impact has direct and significant effect on or relationship to Financial
Business & Operational	Score 1 2 3	Business & Operational Feasibility Impact has a minimal effect on or relationship to Business & Operational Impact has some routine effects on or relationship to Business & Operational Impact has direct and significant effect on or relationship to Business & Operational
Views of Interested Parties	Score 1 2 3	Stakeholder Involvement Impact has a minimal effect on or relationship to Views of Interested Parties Impact has some routine effects on or relationship to Views of Interested Parties Impact has direct and significant effect on or relationship to Views of Interested Parties
Management Discretion	Score 1 2 3	Management Decision Impact has a minimal effect on or relationship to Management Discretion Impact has some routine effects on or relationship to Management Discretion Impact has direct and significant effect on or relationship to Management Discretion
OVERALL SCORE for Establishing Objectives & Targets		SIGNIFICANCE TOTAL + ((Legal & Other Requirements x Value Prioritization Score) + (Technological Options x Value Prioritization Score) + (Financial x Value Prioritization Score) + (Business & Operational x Value Prioritization Score) + (Views of Interested Parties x Value Prioritization Score) + (Management Discretion x Value Prioritization Score))
Risk Category		Significant Aspects & Hazards Grouped by Risk B = Business Interruption E = Environment H = Health S = Safety

#### IMPACTS AND HAZARDS RISK ASSESSMENT FORM

Employee(s):				Asset #:			
Task Description:				Room #:			
Activity Description	n.		Building:				
OPERATING CON				Bullulig.			
Score		Diak	Level	Notes			
30010	Operating Condition Parameters Normal - Orocess operates as designed	RISK		inotes			
2	Abnormal - Upsets in operation, failures in design or use		3				
3	Emergency - Process interruption due to emergencies	•	2				
-							
	RISK: Individual(s) at risk, e.g., visitors, staff or near neighbors						
Score	Population at Risk Parameters	Risk	Level	Notes			
1	One to nine individuals		_				
2	10 to 99 individuals		3				
3	>100 individuals						
REQUENCY: Th	he amount of time being spent being exposed to the health & saf	ety hazard or the nu	Imber of occurrence	S			
Score	Frequency Parameters	Risk	Level	Notes			
1	Little likelihood of exposure						
2	Infrequent exposure during the day, week or month		3				
3	Exposure occurs continuously everyday						
<b>PROBABILITY: TI</b>	he likelihood of the health & safety hazard or environmental incid	dent occurring					
Score	Probability Parameters	Risk	Level	Notes			
1	Remote change of occurrence						
2	Likely event could eventually happen		3				
3	100% change of occurrence						
SEVERITY: Magn	itude of the health & safety hazard or environmental impact						
Score	Severity Parameters	Risk	Level	Notes			
1	Negligible EH&S or financial impact resulting in no recovery time						
	Undesirable EH&S or financial impact resulting in days of		<b>`</b>				
2	recovery and/or undesirable media coverage	•	3				
3	Severve injury, multiple injuries, fatality or financial impact						
	resulting in weeks or months of recovery						
ONTROL EFFEC	CTIVENESS: Measure of a system used to prevent a health & safe	ety hazard or reduce	e an environmental ri	isk			
Score	Control Effectiveness Parameters	Risk	Level	Notes			
4	Full Control - All steady Ssate, upset and emergency operating						
1	practices and conditions in place, e.g., BMPs						
2	Controls in Place - Administrative and/or engineering controls		3				
£	could be improved, e.g., SOP						
3	Unacceptable - Redesign operation or provide additional levels						
	of protection needed to reduce risk, e.g., PPE IMPACTS & HAZARDS SCORING						
	Total Score = OC x PAR x F x P x S x CE	Total	Score	Notes			
	SIGNIFICANCE DETERMINATION RANGES						
	Priority A (Score is >300)						
	Priority B (Score is in the 100 – 299 Range)	72	29				
	Priority C (Score is <100)						
	Responsibility an	d Accountability					
		Date:					
Prenared Rv <sup>.</sup>							
Prepared By: Reviewed By:		Date:					

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