

Pipelines and Terminals CTEMS Document		
	<p><b><i>ELEMENT FOUR</i></b></p> <p><b><i>Operations Reliability &amp; Mechanical Integrity</i></b></p> <p><b><i>4.1.3 RISK ASSESSMENTS</i></b></p>	<b>FHES SWP 01.2</b>
		<b>Rev Date May 2019</b>
		<b>Revision 0</b>

TITLE:	
ASSESSMENT TEAM:	
DURATION AND FREQUENCY OF TASK:	
PERSONS AT RISK:	
ENVIRONMENT AT RISK:	
IS AN ALTERNATIVE PRODUCT OR PROCESS AVAILABLE:	
PPE:	
IN THE EVENT OF EXPOSURE:	



Consequence Category	Considerations			
	Health/Safety	Community	Environmental	Business
I	No onsite injury to first aid or no injury to public	No to minor impact to people or no media coverage	No reportable quality or no agency contact or no response needed	\$0 to \$100K
II	Onsite recordable to lost time injury or nuisance to public	Community warning or local media coverage	Reportable quality with agency notification or short duration remediation	\$100K to \$1MM
III	Permanent disabling injury to single or multiple fatality within the immediate area or medical treatment to public	Shelter in place or state to regional media coverage	Reportable quantity with agency presence or prolonged remediation	\$1MM to \$10MM
IV	Multiple fatalities across the site or public fatality	Public evacuation or national media coverage	Agency intervention or permanent environmental damage	Greater than \$10MM

Likelihood Category	Definitions
A	Very unlikely, not expected to occur at this facility, expected to occur at a facility globally, less than once every 10 years. ( <b>&lt;1 / 10,000</b> )
B	Not likely to occur in life of this facility, expected to occur once per year at a facility globally. ( <b>1 / 1,000 to 1 / 10,000</b> )
C	May occur once in life of this facility, expected to occur once per year at a facility globally. ( <b>1 / 100 to 1 / 1,000</b> )
D	Likely to occur at this facility once every 10 years. ( <b>1 / 10 to 1 / 100</b> )
E	Very likely to occur at this facility ( <b>&gt;1 / 10</b> )

Risk Level Matrix	Likelihood/Frequency				
	Consequence	A	B	C	D
IV	Level 1	Level 2	Level 3	Level 4	Level 4
III	Level 1	Level 1	Level 2	Level 3	Level 4
II	Level 1	Level 1	Level 1	Level 2	Level 2
I	Level 1	Level 1	Level 1	Level 1	Level 1

Risk Matrix Position	Approval to Operate
Level 4	Intolerable level of risk. Further control measures required.
Level 3	Director Pipelines and Terminals.
Level 2	Regional Manager / Pipelines Manager
Level 1	Terminal / Facility Manager / Facility Engineer

Signed off approval to Operate:

\_\_\_\_\_

Position:

\_\_\_\_\_

Date:

\_\_\_\_\_

Action	Person Responsible	Date Action Assigned	Date Action Completed	Comments

**CTEMS DOCUMENT CONTROL**

<b>Description</b>	<b>Reference</b>
Document:	FHES SWP 01.2 – Risk Assessment Template (5x4)
Date Created:	31 <sup>st</sup> May 2019
Owner:	HES Manager
Author:	Jon Daniels
Date Reviewed/Amended:	May 31 <sup>st</sup> 2019
Revision No:	0

<b>Revised Date</b>	<b>Name</b>	<b>Reason for Revision</b>	<b>Amendment Request No:</b>
31 <sup>st</sup> May 2019	J Daniels	Created as separate CTEMS form from SWP 01	AR 334