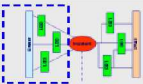


Fire Safety Concept Tree scenario worksheet (NFPA 550)



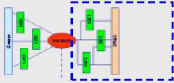
Company	: ICL-IP Terneuzen B.V.	Behandelt door	: 2E
Area	: Maintankenpark	Date	: 18-5-2019
Scenario nr.	: Tankputbrand M1, M3 en M4 en verlaadplaatsen		
Scenario title			

Scenario consequences		Direct causes	
Constructie	: Zie UPD		
Apparatuur	: Zie UPD		
Kabels	: N.v.t.		
Bluswaterleiding	: N.v.t.		
Besmetting product	: N.v.t.		
Sumps			
Luchtleidingen			
Koelwater systeem			
stikstofsysteem			



Preventive LOD's		Securing LOD's	
nr.		nr.	
1	Onderhoudsprocedure		
1	ATEX zonering indien noodzakelijk		

Concept checklist	Manage method	To be used	Control item	To be used	How	How (2nd level)	To be used	Wettelijke eis	Acceptable/ Possible	Remarks
Manage fire	Control combustion process	☑	Control fuel OR Control the environment	☑	Control fuel properties, or Limit fuel quantity, or Control fuel distribution	☐	ja			Insluitsystemen
	OR Surpress fire	☑	Automaticaly surpress fire	☑	Detect fire, and Apply sufficient surpressant	☑				Brand- en gasdetectie Schuimblusinstallatie
	OR	☑	Manually surpress fire	☐	Detect fire, and Communicate signal, and Decide action, and Respond to site, and Apply sufficient surpressant, and Accessible, and Workable	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				
Control fire by construction	☐	Control movement of fire AND Provide structural stability	☐	Vent or remove fire, or Confine/contain fire	☐ ☐					
Manage exposed										
Limit amount exposed	☐	☐	Defend exposed in place, OR Move exposed	☐	Restrict movement of exposed, and Defend the place, and Maintain essential enviroment Cause movement of exposed, and Provide movement means Provide safe destination (Defend exposed in place is required)	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				
Prevent fire ignition	Control electrical energy sources	☑	Eliminate electrical energy sources, or			☐				ATEX
			Provide barrier			☑				
	Control heat-energy sources	☐	Eliminate heat-energy sources, or			☐				
			Control rate of heat-energy release			☐				
	Control source-fuel interactions	☐	Control heat-energy source transport, and	☐	Provide separation, or	☐				
					Provide barrier	☐				
					Control conduction, and	☐				
					Control convection, and	☐				
					Control radiation	☐				
	Control fuel	☐	Control fuel transport	☐	Provide barrier, or	☐				
					Provide separation	☐				
					Eliminate fuel(s), or	☐				
	Control fuel ignitibility	☐	☐	☐	Control fuel properties, or	☐				
					Control the environment	☐				



Mitigation LOD's		Securing LOD's	
nr.		nr.	

