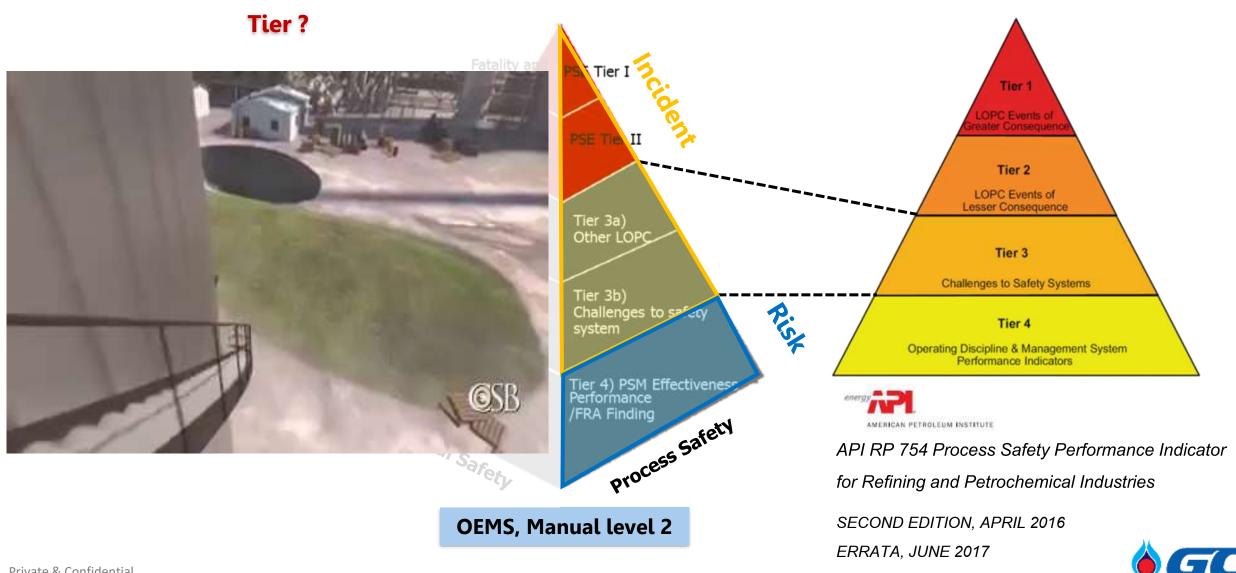


Process Safety Events Indicator

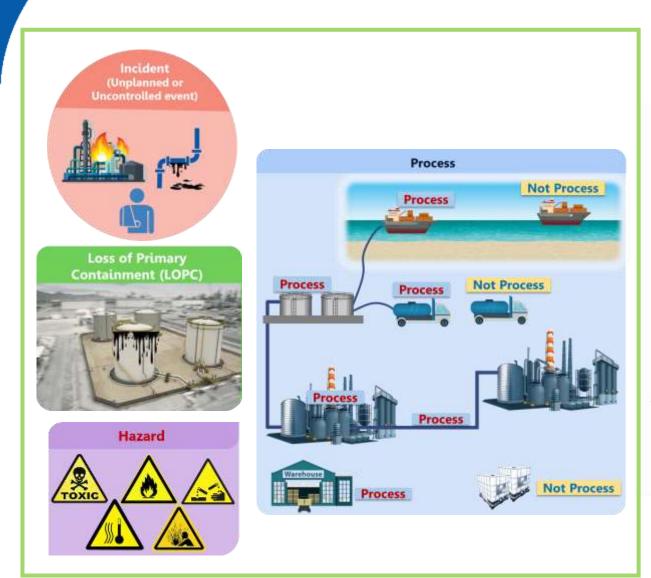
สายงาน QSE/Q-TS

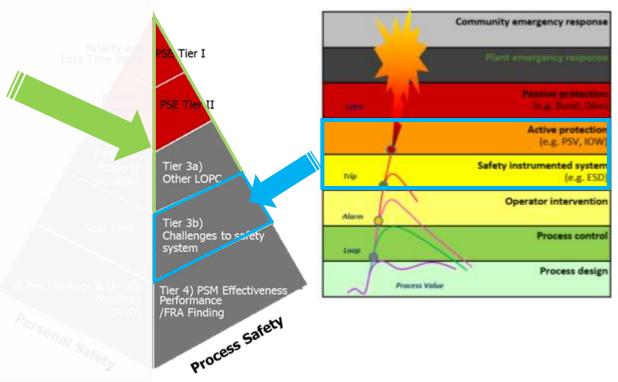
ประชุม GMC : 22/กันยายน/2563

Process Safety Indicators Pyramid



Process Safety Event (PSE)



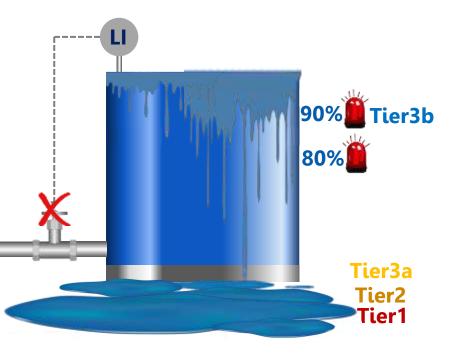


Process Safety Event Tier 1/2/3a/3b



Process Safety Event (PSE)

Hydrocarbon Tank

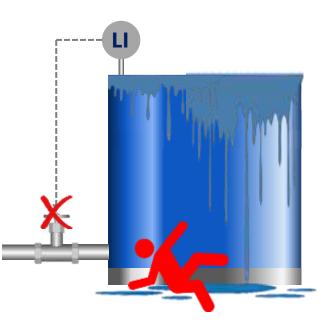


Consequence	Tier 1	Tier 2	Tier 3a	Tier 3b
Quantity (Loss of Primary Containment)	High	Medium	Low	
Personal Injury	Fatality/ Loss Time	Medical Treatment		
Fire & Explosion (Direct Cost, USD)	<u>></u> 100,000	< 100,000 and <u>></u> 2,500	< 2,500	
Evacuation	Official declared community			
Challenges to Safety Systems				- Safe Operating Limit excursion (Integrity Operating Window) - Demand on Safety Instrumented System e.g. ESD, PSV popup



Process Safety Event (PSE)

Hydrocarbon Tank



Hydrocarbon Overfill Low quantity

Contractor injury is day a way from work

Process Safety Event Tier 1

Consequence	Tier 1	Tier 2	Tier 3a	Tier 3b
Quantity (Loss of Primary Containment)	High	Medium	Low	
Personal Injury	Fatality/ Loss Time	Medical Treatment		
Fire & Explosion (Direct Cost, USD)	<u>></u> 100,000	< 100,000 and <u>></u> 2,500	< 2,500	
Evacuation	Official declared community			
Challenges to Safety Systems				 Safe Operating Limit excursion (Integrity Operating Window) Demand on Safety Instrumented System e.g. ESD, PSV popup



เราเชื่อว่าอุบัติเหตุป้องกันได้





