



Effectively Manage Mechanical Integrity using Process Safety Enterprise[®]

An ioMosaic White Paper

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Introduction

Asset Integrity Management (AIM) or Mechanical Integrity is crucial to the Process Safety Management (PSM) 29 CFR 1910.119 standard. Many companies find AIM difficult to manage since it encompasses the policies, procedures, and workflows to develop and execute Inspection, Testing, and Preventive Maintenance (ITPM) of all PSM equipment and track ITPM deficiencies. Tracking recurring ITPM and the resolution of deficiencies can be difficult without an established workflow and document management system. Losing track of these tasks can jeopardize the safety of employees, the plant assets, the community, and the environment and interrupt business continuity.

An effective AIM program should include capturing the design parameters and specifications of PSM equipment and the Recognized and Generally Accepted Good Engineering Practices (RAGAGEP) used to design the equipment and choose the materials of construction. The manufacturers' operating manual can also be used to identify the required ITPM for equipment bought off-the-shelf (pre-engineered equipment.) A document management system is needed to gather, use, and maintain this important information.

The AIM system should also document the required ITPM and frequencies for the equipment within and in support of the PSM process using the established RAGAGEP and/or manufacturers' recommendations. A workflow works best to document and anticipate the upcoming ITPM, especially for extended shutdowns that require extensive pre-planning. The workflow should specify whether the ITPM can be done with the plant fully functioning, the plant shutdown and energized or de-energized, or the specific equipment de-energized or energized but idle. These distinctions are very important for planning purposes.

The ITPM workflow should also assign the ITPM to qualified internal employees or contractors with the expected start and end dates. Depending upon the site procedures, the managers should seek relevant management approvals from Maintenance, Environmental, Health, and Safety (EHS), Operations, or others.

The workflow should also specify if permits such as confined space entry, hot work, or line breaking are required and if scaffolding or lifting equipment is needed to access the equipment. If critical equipment has been identified, this information should be part of the AIM workflow to allow prioritization when needed. The process should also state whether positive material identification is required when replacing piping, parts, and equipment.

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After the ITPM is completed, the report should be saved in a file linked to the equipment, and a qualified person should review and approve the report and determine if any deficiencies must be addressed.

The AIM workflow should manage ITPM deficiencies and provide a process for the qualified person to determine how to address and track them. Typical options include taking the equipment with the deficiency out of service, mitigating the equipment or procedures to operate the equipment safely before the repair can be made, conducting a fitness-for-use evaluation, initiating a temporary repair before the permanent repair can be made, or approving a permanent repair. The decisions and approvals for each option should be included in the workflow with the option of generating a Management of Change if planned modifications are not replacement in kind.

Effective AIM systems help companies document, plan, and execute required ITPM based on RAGAGEP and/or manufacturer's recommendations and address equipment deficiencies. Both workflows help companies comply with the PSM requirements of the 29 CFR 1910.119 standard.

For businesses serious about implementing a comprehensive and evergreen PSM compliance system, ioMosaic offers the Process Safety Enterprise[®] (PSE) (Figure 1). PSE is a cloud-based platform enabling easy ongoing management of process safety data, helping businesses achieve compliance, manage risk, and remain competitive. Unlike any other system available in the market today, PSE is a centralized web-based application that integrates all PSM elements and workflows, making it THE ultimate solution for managing AIM systems effectively. This white paper will delve into the key features of the AIM workflows and how they benefit companies seeking to improve and elevate their AIM system to eliminate or mitigate catastrophic incidents.

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Process Hazard Analysis	» Add » View » Search			0	12	Process overview for section PB-012-02 rev2	03/14/2023	
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Contractors	» Add » View » Search	Emergency Planning & Response		9	12	PSE pipeline	03/07/2023	
Operating Procedure	» Add » View » Search	Process Hazard Analysis		9	12	benchmark	03/07/2023	
Compliance Audit	» Add » View » Search	Trade Secrets		9	12	ioMosaic_Process Safety Enterprise_Installation	03/07/2023	
Trade Secrets	» Add » View » Search	мос	73	9	12	ioVent_RS_v0.6	03/07/2023	
Training	» Add » View » Search	Pre-Startup Safety Review 2		9	12	New Vendor Setup form 2017	03/07/2023	
Employee Participation	» Add » View » Search	Compliance Audit 15		9	F	openme	03/07/2023	
Process Safety Information	» Add » View » Search	Training						
моос	» Add » View » Search	Safe Work Permit						
			114					
Action Items Overview	View All (134) ≫	Operating Procedure						
		Process Safety Information 50						
	Overdue (134)	Contractors	76					
	Due Today (0)	Al Finding	121					
	Due Within A Week (0)	Employee Participation 44						
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Document Control System

The document control system of PSE's platform is a key component facilitating easy access to all critical process safety data. It allows users to add documents by simply dragging and dropping (Figure 2) them into the system and quickly organizing them in folders for easy retrieval. With an advanced search function, which indexes all documents with full text, users can find any necessary information quickly. An embedded document viewer feature enhances accessibility, allowing users with view-only permission to access documents remotely without logging onto their computer. This document control component is an effective tool for managing various types of data, including but not limited to engineering data, process safety information (PSI), equipment forms, procedures, records, pictures, videos, animation, and reports. This component further ensures that all stakeholders have easy access to vital information related to the AIM system stored in a centralized location.

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Figure 2. Drag and drop feature to add document(s)

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General Asset Integrity PSI General Info	Selected	Folder/Pat	1: PSM 14 Eleme	nts » ERP				
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🗉 🚞 Contractors docs	0	19	Test Emergency Re	sponse Plan				05/02/2022
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Source: ioMosaic Corporation – PSE

Intelligent Form Builder

In addition to its document control component, PSE includes an intelligent form builder for efficient data capture and linking to documents in a central digital library. This dynamic form builder enables users to create practical, customizable infrastructure capturing and managing information, such as equipment design parameters and materials of construction. Equipment specifications, criticality, damage mechanisms, and the type and frequency of ITPM can also be easily captured on dynamic forms (Figure 3) and linked to relevant documents.

The dynamic form builder also allows companies to tailor forms to their specific needs, making the AIM process more effective, efficient, and company-centric. The ability to customize forms for unique facility equipment ensures that all necessary data is captured accurately and consistently. Moreover, this feature allows for easy export of data to an Excel format, making data analysis and sharing even more seamless. Implementing a customizable form builder like the one found in PSE streamlines an AIM process by capturing data accurately and efficiently the first time and managing changes going forward.

The equipment forms also have an "Inspection Records" tab for documenting the required ITPM and frequencies. The AI workflow can be accessed directly from this tab to launch the AI workflow to execute the required ITPM.

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Figure 3. Example of Equipment Form

eneral Constructi	on & Materials Tray	s & Internals	Service Conditi	ons Vessel	Damage Mechanism	Nozzles	Service Conditions Jacket	Service Conditions Co
nspection Records	Inspection Company	Data History						
Unique ID	15137							
	*Unique Identifier							
*Company Name	ABC							
*Plant	Post Refinery Kettles	~	Unit	B and G	~			
Plant ID	333-000		Unit ID	444				
*Equipment Number	R-123	*A	sset Number	555				
Equipment Name	Reactor 1	*Eq	uipment Type	Reactor		~		
Equipment Description	Post Refinery React	or 1						
Pressure Vessel Registration #	456dddddd	Eq	uipment Critica	lity B-	High 🗸			
P&ID	@ R-123 P&ID.docx [More Details] 🤅	٥					
			Add 🕇	Q 🛈				
P&ID Number	PRK-BG-R-123							
Equipment			Add 🔒	Q. 🕤				

Asset Integrity Workflow

PSE is the only process safety platform that integrates all of OSHA's Process Safety Management (PSM) elements using visual workflows in a single enterprise system. This workflow includes PSM's 14 elements using workflows, action tracking modules, and document control. The Asset Integrity (AI) and Asset Integrity Finding workflows allow companies to access and manage their compliance information more efficiently and easily.

PSE's Asset Integrity workflow module includes pre-built equipment forms for typical equipment, such as pressure vessels, pumps, and interlocks. The forms capture pertinent PSI, such as the equipment specifications, criticality, damage mechanisms, and ITPM tasks and frequencies. These pre-built forms ensure a company's AIM process is consistent and captures all necessary information. Unique equipment forms can also be added easily.

The Asset Integrity workflow establishes steps for initiation, work order generation, approvals, scheduling, reporting, capturing costs, reviewing and approving the work, verifying or changing established tests and intervals, updating documentation, addressing deficiencies, and closing the workflow. The AI workflow can be customized to meet the specific needs of any company.

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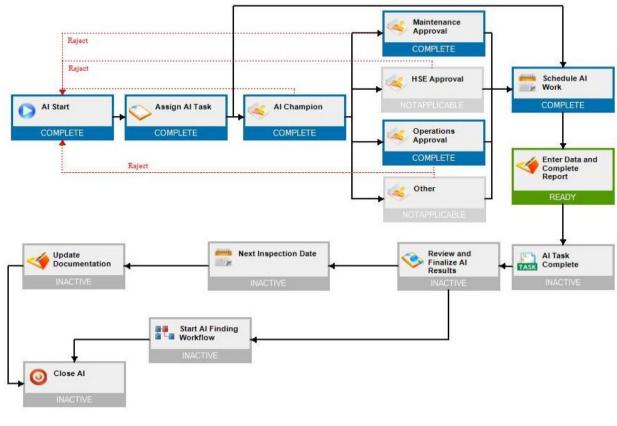
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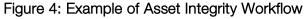
Source: ioMosaic Corporation – PSE



Figure 4 illustrates the steps in the AI workflow, with blue Complete steps, gray Not applicable steps, and green Ready steps. The two green Ready steps illustrate that the current ITPM can be finalized while the AI Finding workflow is started. The workflow cannot be closed until all required steps are completed for the ITPM and deficiencies. If no deficiencies are found, the Start AI Finding workflow step will be gray and Not Applicable.

The AI workflow within PSE is an essential tool that ensures the PSM equipment and equipment that supports the PSM process, such as fire equipment, are routinely maintained based on RAGAGEP and/or manufacturers' recommendations.





Source: ioMosaic Corporation – PSE

Asset Integrity Finding Workflow

PSE's Asset Integrity Finding workflow module can be initiated from the AI workflow or directly within the Finding workflow. If this workflow is generated from the AI workflow, the essential information will be pre-populated to save time and ensure that the two workflows have identical data.

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The Asset Integrity Finding workflow establishes steps for initiation, various workflows depending upon how the finding will be managed, completing and approving the chosen action, updating documentation, conducting training, and closing the workflow. Management of Change (MOC) is either required or an option within the workflow, depending upon the action taken. For example, taking equipment out of service would require an MOC. If an MOC is required, the MOC workflow can be initiated from the AI Finding workflow and will pre-populate the key information. The AI Finding workflow can be customized to meet the specific needs of any company.

Figure 5 illustrates the steps in the AI finding workflow, including Take Equipment Out of Service, Initiate and Complete a Fitness-for-Service (FFS) Evaluation, Continued Service with Mitigation, Continued Use and Repair in a timely manner with the option of a Temporary Repair Required Before continued Use, and Repair Required Before Continued Use. This workflow has the same blue Complete steps, gray Not applicable steps, and green Ready steps. If a step does not apply or is not needed (i.e., no training is required), the step will be gray and Not Applicable.

The AI Finding workflow within PSE is crucial for documenting and tracking the timely resolution of equipment deficiencies to completion.

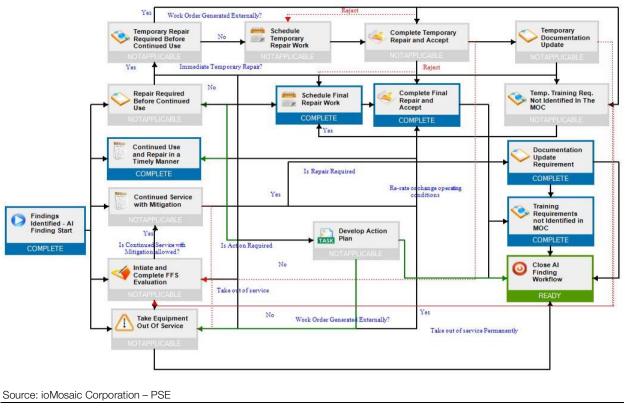


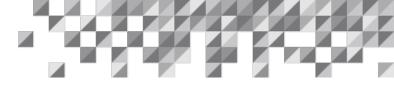
Figure 5: Example of Asset Integrity Finding Workflow

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Action Tracking System

PSE features a comprehensive action item management system (Figure 6) that tracks all tasks related to each process safety management workflow, such as AI and AI Finding. This feature ensures that all action items are managed within the platform, reducing or eliminating the risk of overlooked or forgotten tasks. Additionally, the automatic reminders ensure that all tasks are completed on time.

Figure 6. Al Action item

ction Items			
forkflow: Display Action Item Edit			ĺ
Information			-
Action Item ID:	Assigned By:	Last Modified By:	
5874	Dianne Coon	Dianne Coon	
Elapsed Time:	Date Entered:	Date Modified:	
7 day(s)	11/3/2023 1:11:01 PM	11/3/2023 1:11:02 PM	
Details Assigned to:		Workflow Information Workflow Module:	
Dianne Coon		AI	
Description:	Action Taken:	Workflow Form Item:	
Please idle Reactor 1 at noon on Nov 6, 2023, so the PSE can be pulled for inspection. A backup will be immediately installed so production can resume.		15556 Workflow task:	
Notify List:	Comments:	AI - Schedule AI Work	
			-

Source: ioMosaic Corporation - PSE

Reporting and Dashboard/KPI

PSE's reporting and dashboard (Figures 7 and 8) capabilities are an invaluable 'must-have' asset for any data-driven enterprise solution looking to increase performance and productivity. With welldesigned dashboards featuring various widgets such as bar charts, pie charts, line charts, and tables, PSE provides a comprehensive overview of the PSM program from a single source. These dashboards allow business owners to make faster decisions based on real-time data.

Customizable reports are available for Inspections and Findings. The inspection Report tracks ITPM due within the timeframe chosen at the top, and Overdue Inspections show all ITPM past its due date. The Findings Report shows the same information for Findings currently being worked on (open) and those past their expected resolution date.

Moreover, PSE's reporting and dashboard capabilities provide real-time visibility into AIM-related activities, allowing organizations to quickly identify trends and areas of concern. This capability

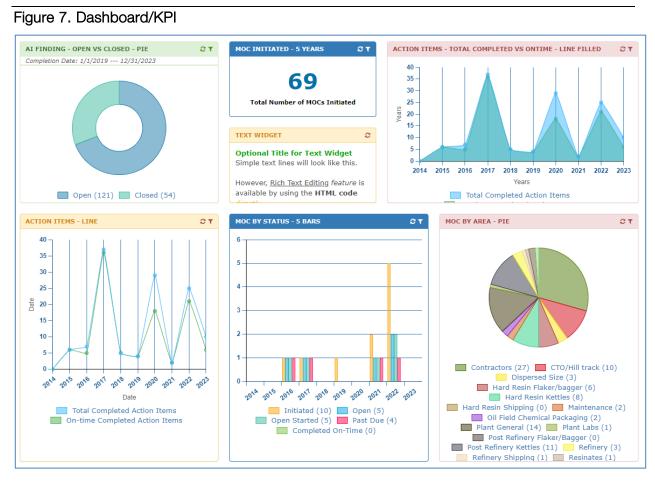
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enables timely corrective action, reducing the risk of incidents and non-compliance. PSE's robust reporting and dashboard/KPIs are essential tools for any enterprise looking to optimize its operations and mitigate potential risks.



Source: ioMosaic Corporation - PSE

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Figure 8.	Inspection	Report (D	Due and Overdue)
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Start Date: 1	1/10/2023	1		End Date: 5/	10/2024						
quipment T	ype		Inspection Type			Plant Site			Units Name	Equipment C	riticality
Select item(s)		Select item(s)			• Select item(s)	•	Select item(s)	▼ Select item(s)	Select item(s)	
Run Report											
nspection D	ue Report		Export to Excel						Display	10 records 💌 Per Page	
Equipment Number	Form Name	Equipment Type	Inspection Type	Next Inspec	tion Plant Site	: Unit Nar	ne Equipment	t Criticality	PMI? Operation Sta	tus Inspection we	
P-444	15061 - dddd / AI - Centrifugal Pump	Pump - Centrifugal	Lube Equipment	12/6/2023	Dispersed Size	B and G	B- High		Yes Full production	No	N/A
P-444	15061 - dddd / AI - Centrifugal Pump	Pump - Centrifugal	Vibration	12/13/2023	Dispersed Size	B and G	B- High		Yes Full production	No	N/A
222	15487 - / AI - Agitator	Agitator	Functionality Check	1/9/2024	CTO/Hill track	Asphalt Plant	B- High		No Equipment energized 8 producing material)	& idle (not No	N/A
Page 1 of 1	1										Total Record
· ·	verDue Report		Export to Excel						Display	10 records V Per Page	
Equipment Number	Form Name	Equipment Type	Inspection Type	Next Inspection Date 🔻	Plant Site	Unit Name	Equip Criticality	PMI?	Operation Status	Inspection workflow sta	arted? AI Due Date
A-123	15120 - R-123 Agitator / AI - Agitator	Agitator	Vibration	1/18/2020	Hard Resin Kettles	B and G	B- High	No	Full production	AI Workflow 15122	08/27/2020
-234	14839 - P-234 / AI - Piping Circuit	Piping Circuit	Thickness	7/1/2020	Post Refinery Kettles	Asphalt Plant	C- Medium	No	Full production	No	N/A
144	14687 - 444 / AI - Pressure Vessel	Column - Packed	Electrical PM		Hard Resin Flaker/bagger	B and G	C- Medium	No	Plt SD & de-energized	No	N/A
				8/5/2020	Post Refinery Kettles		A - Very High	No	Equipment energized & idle (no		N/A

Source: ioMosaic Corporation - PSE

Case Study – The Consequences of a Deficient AIM Program

The Challenge

The US Chemical Safety and Hazard Investigation Board (USB) investigated the January 9, 2014, Freedom Industries chemical spill in West Virginia. According to the USB, Freedom Industries spilled approximately 11,000 gallons of a mixture that primarily contained Methylcyclohexane methanol (MCHM) and a lesser amount of polyglycol ethers into the Elk River. Tank 396 was found to have internal pitted corrosion that created the two holes that leaked the mixture.

The mixture made it downstream to the West Virginia American Water (WVAW) water treatment plant, which could not treat and remove all the chemical mixture from the drinking water. WVAW issued a do-not-use order for the drinking water, which impacted about 300,000 residents. Even with the order, 369 emergency room visits were believed to be linked to people exposed to the water. Symptoms included nausea, vomiting, and abdominal pain. Many businesses, schools, and public offices were also closed.

The CSB found no documentation of prior inspections or maintenance for tank 396. They also found the dike that should have contained a tank spill to have cracks and holes the leak traveled through. Freedom was aware of the dike's issues but did not repair them before the incident. Finally, the leak traveled down a deteriorated underground culvert and reached the river.

Freedom Industries could have prevented this disaster if they had created an Asset Integrity Management program that required the identification and execution of Inspection, Testing, and

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Preventive Maintenance (ITPM based on Recognized and Generally Accepted Good Engineering Practices (RAGAGEP). This article, <u>The Price of a Deficient Asset Integrity Program</u>, can help your company understand the consequences of a deficient AIM program and access training information and checklists to begin creating or improving your AIM program.

An AIM program that relies on individuals to track required ITPM and repairs is prone to human error and competing priorities. Creating a documented AIM program that relies on an electronic platform for documenting the AIM program policies and procedures, tracking ITPM, and correcting deficiencies can improve process safety oversight, employee and community safety, and equipment reliability. An overall program can also reduce the risk of catastrophic events due to equipment malfunction or failure.

Our Approach

PSE Asset Integrity and the Asset Integrity Finding Workflows can meet your specific needs. This evergreen, server-based platform provides a centralized database accessible and visible to all employees and contains step-by-step guided workflows. ioMosaic can integrate multiple sites and various data into one uniform AI system by:

- Developing a unique ID system to differentiate facilities and areas
- Setting up sign-on access for users at all facility sites
- Identifying and developing consistent data definitions and metrics
- Standardizing search queries to ensure data quality
- Devising site-specific and corporate reporting capabilities

ioMosaic can customize workflow tasks that are not currently within PSE and can assist with creating unique equipment forms.

The standard built-in features of PSE, such as the automatic assignment of approvals, action item tracking, document linking, and email notifications, all contribute to ensuring the documentation and execution of ITPM and the correction of deficiencies are properly captured and visible to employees.

The Benefits

PSE is a user-friendly Computerized Maintenance Management System (CMMS) that is scalable and affordable for those companies who do not want to implement a large and complicated system. The Asset Integrity workflows can be used as-is or customized to your requirements.

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The equipment forms streamline the process of documenting and maintaining the Process Safety Information for pressure vessels, tanks, piping, and other equipment within the covered process or that supports it. The equipment forms provide a tab for creating and documenting the required ITPM and frequencies for each piece of equipment or controls. The AI workflow can be initiated from that tab to execute the ITPM, or the user can go straight to the AI workflow. Any deficiencies found within the AI workflow can prompt initiating the AI Finding workflow from the workflow. Key information is automatically populated to the Finding workflow to save time and ensure data consistency.

The PSE AI workflow can also be used to plan extensive shutdowns with reports that can be built by the user with the required information, such as the equipment identification number, location, criticality, required safe work practices, positive material identification indicator, and the date the ITPM must be completed.

Finally, the PSE workflows have metrics that can track overdue workflows and the percentage of workflows completed on time (or not completed on time). The metrics are graphed with interactive data that allows the user to drill down to the specific data. This feature saves time as the user investigates potential issues with the AIM program.

Conclusion

Managing an AIM program can be challenging; fortunately, PSE provides an integrated solution that makes the AIM process more efficient and effective. With its dynamic form builder, action tracking feature, and integrated workflows to standardize the process, companies reduce the risk of incidents and non-compliance.

PSE offers additional benefits, including enhanced collaboration, improved data management, and increased compliance with process safety regulations. With the reporting and dashboard capabilities, organizations can easily identify trends and potential areas of concern, gaining real-time visibility into all process safety-related activities. The automatic notification system sends reminders and alerts to stakeholders, ensuring you are on top of status and timely on deadlines.

PSE's customizable AIM workflow modules include AI integrity and AI Findings workflows with review, approval, and closure, ensuring that all necessary information is captured in one centrally located platform.

PSE stands apart in the market by providing the only all-inclusive process safety compliance platform that makes compliance easy.

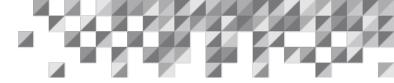
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Useful Links

PSE link to software demo requests
PSE link to PSE overview
AIM basic training information Link
AIM intermediate training information Link
AIM checklist Link
Additional PSE White Papers:
PSM Compliance Made Easy with Process Safety Enterprise®
Effectively Manage Changes to Processes, Chemicals, Equipment, and Personnel Using PSE

Process Safety Enterprise® Asset Integrity Management Service (AIMS) and KPI Dashboard

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