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From Zero to Hero – Lessons learned from surveillance-based monitoring.

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ABSTRACT

Less than 10 years ago, APA had no formal process safety systems in place. The absence of fundamental process safety knowledge, practice and response exposed APA to unrecognised, significant risks. Starting from a baseline of zero process safety measures, APA's Operations process engineering team has led the organisation to identify, socialise, and understand its safety critical devices and hone focus on major accident events (MAE).

This discussion will take the audience on a high-level journey from the starting base of zero, through development of frameworks and systems to effectively monitor MAE bow-ties using exception-based surveillance.

From static excel records, APA have grown through challenges including:

- learning about database integration and maintenance, data, and data quality, and how to use exception based surveillance effectively
- sustainability, repeatability, focus, and adding value to the organisation
- Process safety information, and quality; and finding interdependencies to concurrently uplift process safety information
- alignment with international practice and redesigning the process from the ground up to deliver data, systems, and process for ongoing sustainable, and effective process surveillance, and generate leading and lagging process safety KPI

KEY WORDS

Process Safety, Safety Critical Devices, KPI – key performance indicators, exception based surveillance, PI Vision, OSI PI, operations historian, incident,

BIOGRAPHY

Chris' career has spanned operational assets across QGC and APA; he has held various role within APA's Integrated Operations Centre an in field-operations leadership. Chris leads the technical

support to the Control Room and Commercial Operations teams, and is exposed to all aspects of frontline safety, reliability, and efficiency. Chris' other responsibilities include managing operational capacity out to the medium time horizon, and leads APA's dedicated operational emissions reduction team.

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