

Pipeline Process Safety Key Performance Indicators - 2016/17

Annual review 2016/17

Number	INTEGRITY MANAGEMENT	Target Metric in period	Period	Actual	By
IM1	Kilometres of Pipeline Inspected using I PIG	14km	Annual	11.1km	Essar
IM2	Number of inspection digs	6	Annual	5	Essar
IM3	Number of structural repairs	4	Annual	4	Essar
IM4	Pipeline leaks	0	Annual	0	Essar
IM5	Overdue inspections	0	Annual	0	Essar
IM6	Pipeline/costing damage	0	Annual	0	Essar

Notes:

YF8057 IP stuck in line awaiting acoustic location. YF2140 successfully pigged Jan17

One YF2140 dig re-scheduled

	CATHODIC PROTECTION	Target Metric	Period	Actual	By
CP1	Cathodic Protection Surveys (on potential) km	1552km	Annual	1552km	Penspen
CP2	Cathodic Protection Surveys (on/off potential) km	517	Annual	516	Penspen
CP3	CP planned survey km completed	100%	Annual	84%	Penspen
CP4	CP % within design/operational criteria (based on measurements) %	100%	Annual	98%	Penspen
CP5	CIPS survey completed	109km	Annual	100%	Penspen
CP6	% of pipeline surveyed by CIPs in last 7 years (rolling)	100%	7 years	100%	Penspen
CP7	Priority 1 CP actions overdue	0	Annual	1	Penspen
CP8	CP Surveys overdue	0	Annual	0	Penspen
CP9	CP Reports overdue	0	Annual	1	Penspen
CP10	AC monitoring % of planned survey completed	33 sites	33 sites	100%	Penspen
CP11	AC monitoring % within design/operational criteria (based on measurements) %	100%	Annual	95%	Penspen

Notes:

Each pipeline three times

Inable to complete Jetty lines due to CP station relocation.

WWP BV12.16 currently in progress.

10 locations low, either known or being checked

Lower levels nr Grangemouth, interim measurements show good levels

Annual AC report to issue

Data under review, short term higher levels due to National Grid circuit imbalance

	PIPELINE CORRIDOR MANAGEMENT	Target Metric	Frequency/ Contract Year	Actual	By
PC1	Pipeline line walk km completed annually	554km	Annual	321km	Penspen
PC3	Pipeline road patrols completed	26km	Annual	28km	Penspen
PC4	Pipeline road patrols % of plan	100%	Annual	100%	Penspen
PC5	Pipeline Aerial surveillance completed (km)	11520km	Annual	8976km	RSK Orbital
PC7	High potential infringements (category A/B1)	0	Annual	0	Penspen
PC8	Third party enquiries affecting pipeline		Annual	1265	Penspen
PC9	% of Third party enquiry responses within 1 week of receipt	100%	Annual	100%	Penspen
PC10	Third party activity field response following aerial survey		Annual	117	Penspen
PC11	Landowner visits	240	Annual	392	Penspen/Essar
PC12	% of notified new landowners visited within 3 months of notification	100%	Annual	100%	Penspen
PC13	Third party standby activities monitored	as required	Annual	204	Penspen
PC14	Number of pipeline markers replaced or repaired	as required	Annual	39	Penspen

Notes:

Task behind schedule due to 3rd party monitoring priorities

Flights missed due to weather conditions in quarter 1,3 & 4

117 aerial field responses in year

High number due to phone calls for CIPS and site visits on Wirral lines.

6 new landowners

	PIPELINE OPERATING LIMITS	Target Metric	Frequency	Actual	By
PO1	Safeguarding checks completed to programme %	100%	Annual	100%	Penspen
PO2	Number of safeguarding checks overdue	0	Annual	0	Penspen
PO3	Number of fail safe items FS	number	Annual	0	Penspen
PO4	Number of fail to danger FD	number	Annual	1	Penspen
PO5	Number of failures due to human intervention FH	number	Annual	0	Penspen
PO6	Equipment breakdown- Leading to interruption of supply	0	Annual	0	Penspen / Essar
PO7	Equipment Trip -(not B/Down) leading to interruption of supply	0	Annual	0	Penspen / Essar

Notes:

All from safeguarding results (if completed within quarter)

FS Flame eye fail to danger during safeguarding check

	EMERGENCY MANAGEMENT	Target Metric	Frequency	Actual	By
EM1	Emergency response exercises	4	Annual	4	Penspen
EM2	Emergency Response actual events	0	Annual	0	Penspen
EM3	Local Authority emergency exercises	0	Annual	1	Essar
EM4	% of planned safety equipment tests completed e.g Gas Monitors	100%	Annual	100%	Penspen
EM5	Security incident at above ground installations	0	Annual	0	Penspen

Notes:

3 Penspen & 1 Essar Internal Exercise (with Invoyn & Vyprover)

Hilton / Warrington/ Mid-Cheshire exercise Nov 16

	RECORDS	Target Metric	Frequency	Actual	By
R1	Book of reference updates no.	number	Quarterly	51	Penspen
R2	Annual letters issued	1100	Annual	1,100	Penspen
R3	Number of record updates of Alignment sheets		Annual	8	Essar
R4	% response from annual letters	%	Year to Date	0%	Penspen

Notes:

Approximately 60 responses to annual letter

Key:

Results are within acceptable criteria to achieve process safety of the pipeline

Issue needs attention requires improvement

Results are outside of acceptable criteria to achieve process safety of the pipeline and require urgent attention