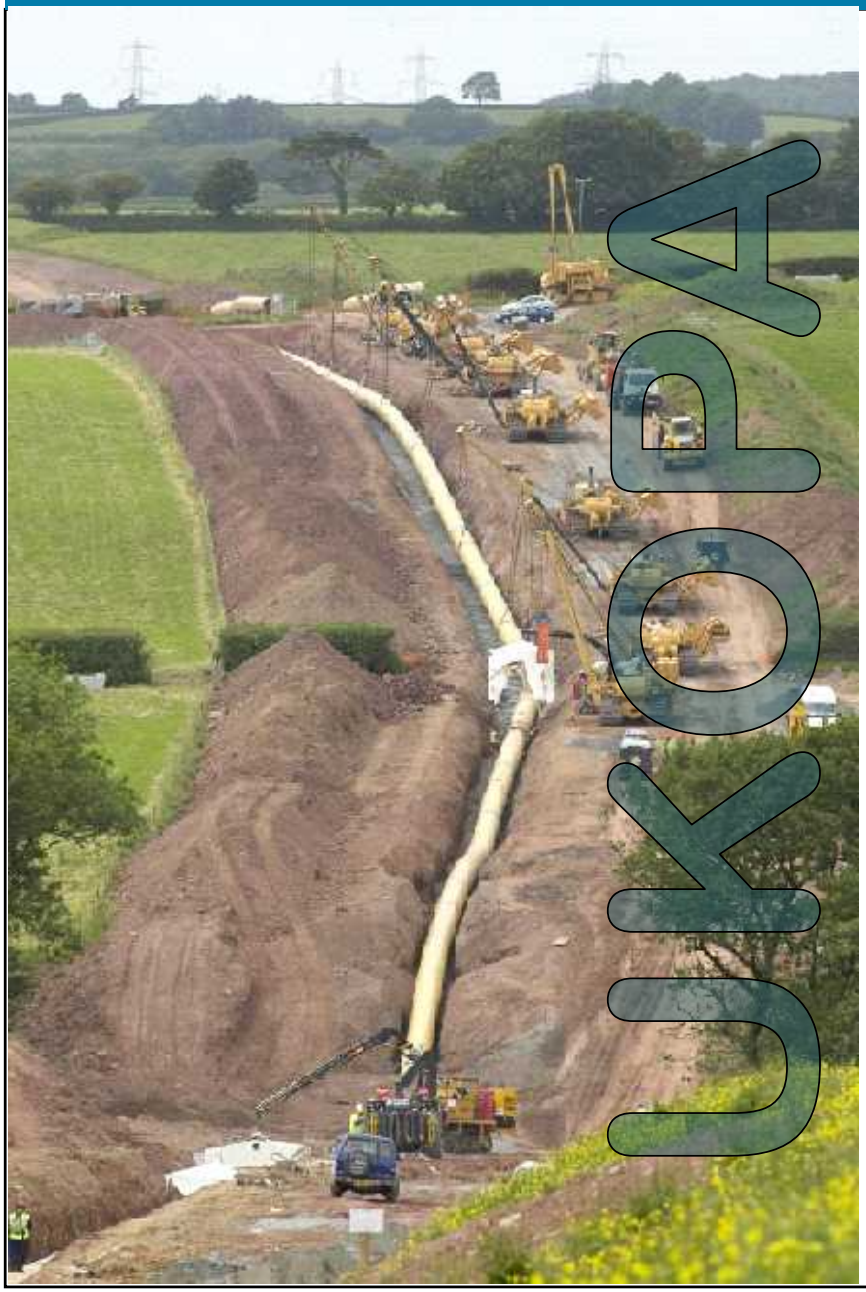
UKOPA

United Kingdom Onshore Pipeline Operators' Association



FDMG – Excel-based Database-

Description of New Arrangements and Future Plans

Rod McConnell

February 2012

UKOPA/12/0018

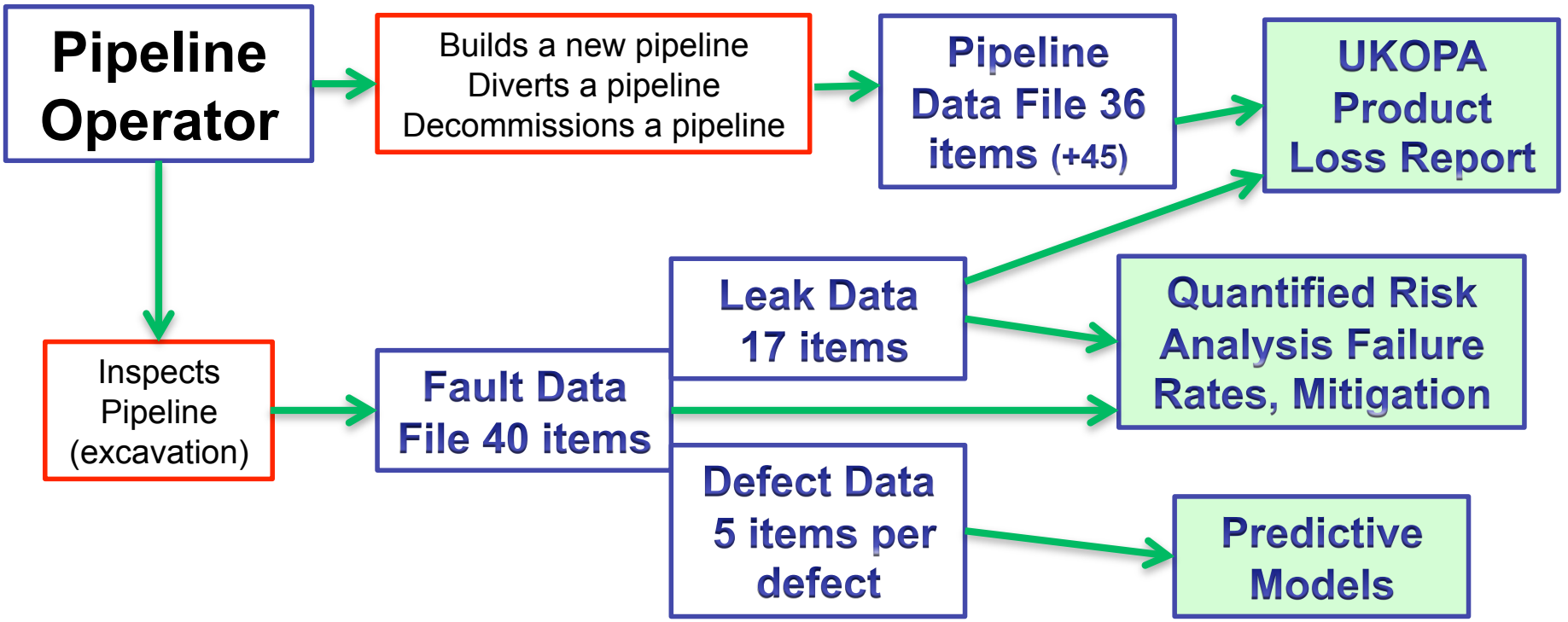
Current members?

National Grid UKT
National Grid UKD
Scotia Gas Networks
Northern Gas Networks
Wales & West Utilities
Essar UK Ltd
Ineos
Shell EPE
BP
Sabic UK Ltd
EON UK Ltd

11 Companies
2309 pipelines

Possible new members
Esso
BPA
TOTAL
OPA
Greystar
Ineos oil
BP oil
Essar oil
Shell EPE oil
BGE

Excel-based Fault and Leak Database



A FAULT is a feature that has been confirmed by field investigation, excavation and measurement. Any features that are inferred by other measurements such an intelligent pig in line inspections, CIPS, etc and have not been verified in the field should not be included. However pipeline defects comprising of coating damage or grinding marks confirmed by inspection should be included. The date of the fault should be the date of the field inspection.

What does the database now consist of ?

1 11 Pipeline Operator XL workbooks with list of pipeline details + master list

2 11 Pipeline Operator XL workbooks with list of faults + master list

3 1 XL workbook with master list of defects

4 1 XL workbook with master list of leaks

5 Data input workbooks for new pipelines and for new faults/leaks/defects + guidance documents to assist with data input requirements

6 Working calculations (spreadsheets) and template for annual UKOPA Leak Report + explanation of calculations

What is required to maintain the database?

1 Check and update any changes in pipelines for each Pipeline Operator on a regular basis (6 monthly)

2 Check Pipeline Operator fault data and include new Faults, Leaks and Defects from each Pipeline Operator every 6 months

3 Send updated workbooks of Pipeline and Faults to each Pipeline Operator every 6 months

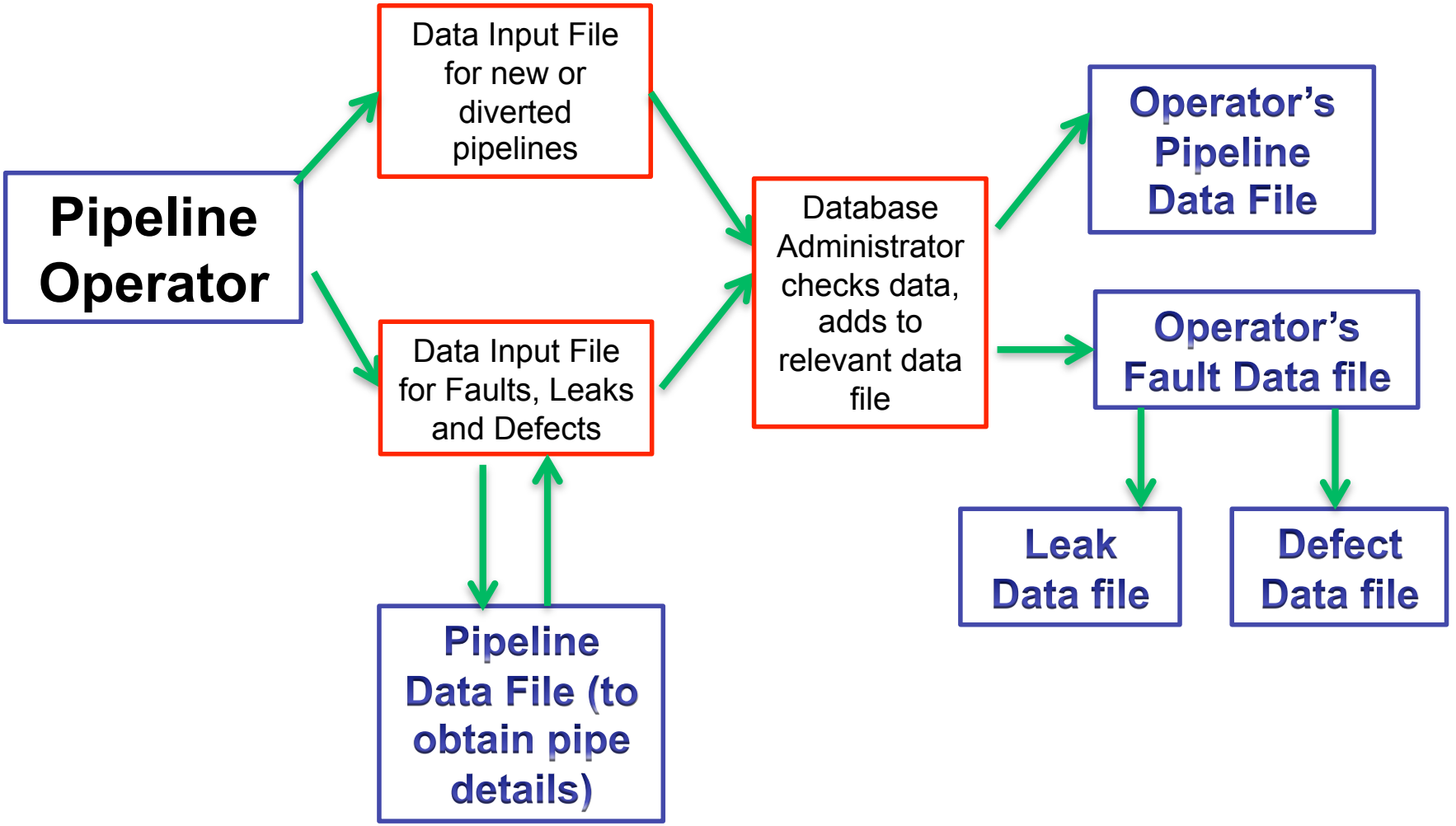
4 Pipeline Operator to check own data and keep current workbooks containing Pipelines ad Faults

5 Carry out calculations and produce Product Loss report annually based on previous year's data

Proposed Annual Timetable and actions

	Database Administrator	Pipeline Operator
Jan	Calls for Fault data for previous 6 month period + any changes to pipelines	
Feb		Returns new fault data + any pipeline changes
Mar	Checks and collates new data and sends updated workbooks to each operator	Replaces / archives previous data and retains new data
April		
May		
June		
July	Calls for Fault data for previous 6 month period + any changes to pipelines	
Aug		Returns new fault data + any pipeline changes
Sept	Checks and collates new data and sends updated workbooks to each operator	Replaces / archives previous data and retains new data
Oct	Calculates new Exposure data, and calculations for annual Product Loss report - updates template report, issues draft for comment to FDMG + RAWG	Reviews draft report and comments to administrator
Nov	After approval by FDMG + RAWG report issued and published on website	
Dec		

Data Input


Pipeline Operator
Data Input File for new or diverted pipelines
Data Input File for Faults, Leaks and Defects
Pipeline Data File (to obtain pipe details)
Database Administrator checks data, adds to relevant data file
Operator's Pipeline Data File
Operator's Fault Data file
Leak Data file
Defect Data file

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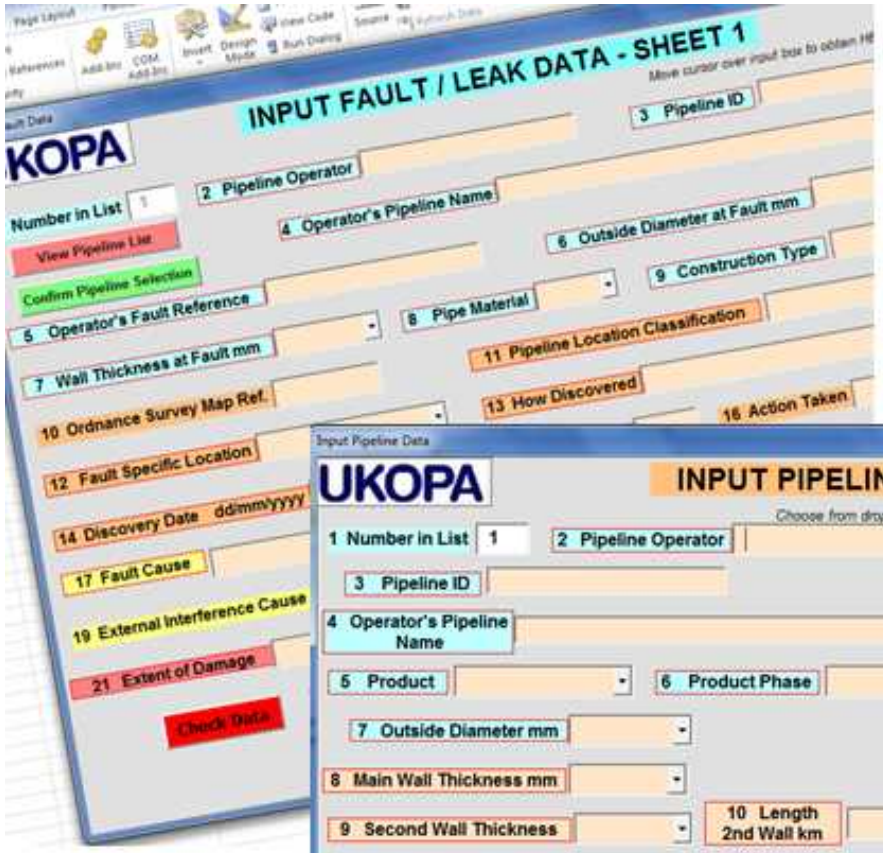

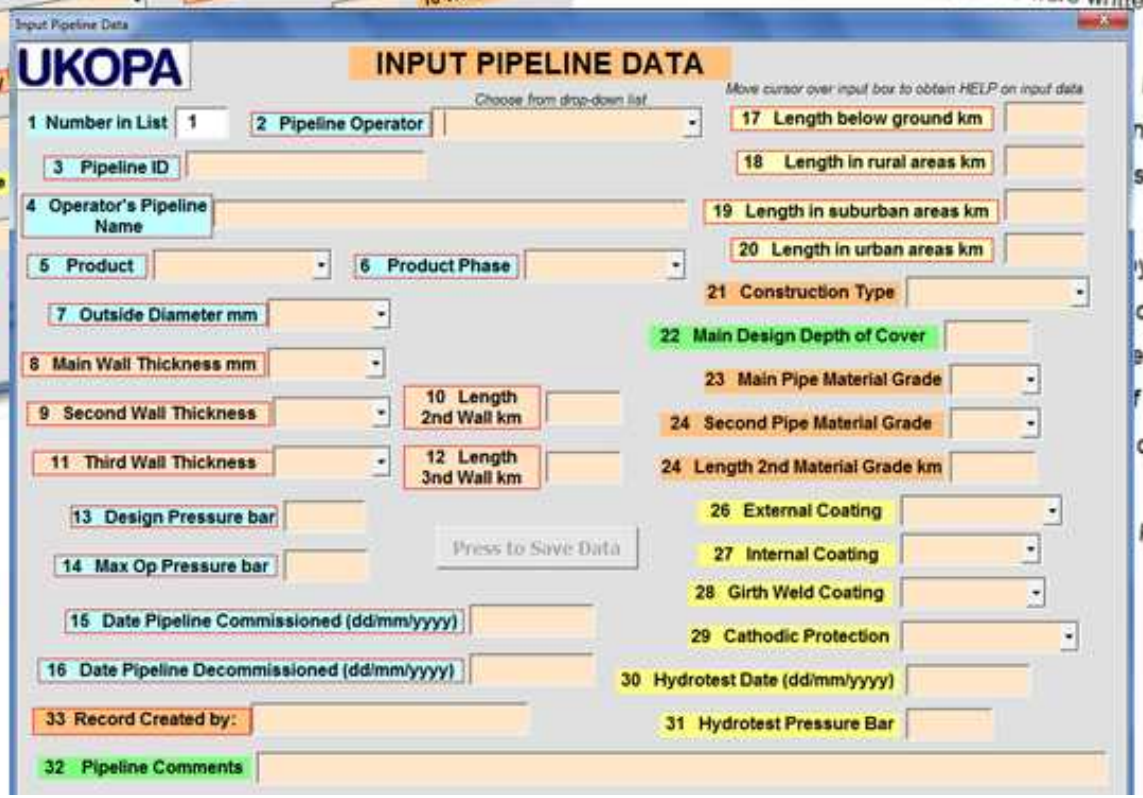

Data Input Forms and Guidance

UKOPA

United Kingdom Onshore Pipeline Operators' Association

GUIDE TO UKOPA DATABASE FAULT DATA INPUT SPREADSHEET

24 August 2011

This Guide has been produced to assist UKOPA Fault Database members to add new fault data to the UKOPA Fault Database.

The new format for the database is Microsoft Excel – the programs work in 2003, 2007 and 2010 versions although the current programs were written in the 2003 version.

is defined as a major accident hazard
nts) and any associated equipment outside
ssure reduction station, compressor, etc)

y field investigation, excavation and
other measurements such an intelligent
een verified in the field should not be
f coating damage or grinding marks
date of the fault should be the date of the

PIPELINE DATA AND FAULT DATA

Changes to Input Data XL Workbooks

- Some operators had IT difficulties with FORMS input so simple DROP-DOWN boxes now included on spreadsheet for FAULTS + LEAKS + DEFECTS
- Pipeline spreadsheet with drop-down boxes still to be produced

	A	B	C	D	E	F
1	NEW FAULT / LEAK INPUT DATA - SCOTIA GAS NETWORKS					
2	1	2	3	4	5	6
3	TEMP FAULT NO	Pipeline Operator	Operator's pipeline reference number	Operator's pipeline name	Operator's fault reference number	Pipe Outside Diameter at Fault mm
4	1	Scotia Gas Networks	MS0002	GRANTON/GRANGEMOUTH		
5	2	Scotia Gas Networks				
6	3	Scotia Gas Networks				
7	4	Scotia Gas Networks				
8	5	Scotia Gas Networks				
9	6	Scotia Gas Networks				
10	7	Scotia Gas Networks				
11	8	Scotia Gas Networks				
12	9	Scotia Gas Networks				
13	10	Scotia Gas Networks				
14	11	Scotia Gas Networks				
15	12	Scotia Gas Networks				
16	13	Scotia Gas Networks				
17	14	Scotia Gas Networks				
18	15	Scotia Gas Networks				
19	16	Scotia Gas Networks				
20	17	Scotia Gas Networks				
21	18	Scotia Gas Networks				
22	19	Scotia Gas Networks				
23	20	Scotia Gas Networks				
24	21	Scotia Gas Networks				
25	22	Scotia Gas Networks				
26	23	Scotia Gas Networks				
27	24	Scotia Gas Networks				
28	25	Scotia Gas Networks				
29			DROP DOWN LIST	DROP DOWN LIST		DROP DOWN LIST

GRANTON/GRANGEMOUTH
BRAISHFIELD/AUSTINS COPSE P005
LORDSWOOD/PURBROOKE P006
LORDSWOOD/HURSLEY P007 IP
HURSLEY/OVERTON P007 IP
FREEFOLKWOOD/ANDOVER P0008 IP
ANDOVER/LUDGERSHALL
HANNINGTON/PARK PREWITT P064 IP

UKOPA

Pipeline Product Loss Incidents

(1962 - 2010)

Draft 7th Report of the UKOPA **F**ault **D**atabase **M**anagement **G**roup

Comprising:

National Grid
BP
Ineos
Sabic
Shell UK Limited
Shell EPE
E-ON UK
Wales & West Utilities
Scotia Gas Networks
Northern Gas Networks
Health and Safety Executive

Report prepared by R A McConnell & Dr J V Haswell for FDMG

Calculations for Product Loss Report

- Calculate Exposure (number of years in operation X length) for each pipeline up to date of report – needs to be updated for new report
- Also need to calculate exposure by various parameters, diameter, wall thickness, area classification etc.
- Leaks – add any new leaks to the list of 184 pipeline leaks in the database, and changes analysis for all data relating to leaks – 3rd party, corrosion, mechanical, etc.
- Calculate all the various parameters required for the Product Loss report
- Enter the new data into the Product Loss report template

  Estimated time to complete – 1 week + revision time

Future Plan

- UKOPA FDMG intending to appoint a new administrator during 2012
- Therefore in process of preparing package for handover
- March-April 2012
  - collate new 2011 data and issue updated Company workbooks for faults and pipelines
  - produce new drop-down box input workbook for pipelines
  - produce and agree Process and Procedure document with FDMG members
  - complete package and guidance on calculations for Product Loss Report – prepare spreadsheets in easily updated form
  - produce draft scope of work document for administration of database
- May 2012 – ready to invite tenders for administration of database

What is required to join the database?

- Data input for pipeline list (now only 36 required data items – relatively easy)
- Commitment to record details for every excavation carried out to inspect pipeline defects discovered by ILI or other inspections (CIPS, known external interference etc) - this can be done using standard forms or data input to UKOPA spreadsheet.
- This includes 40 items + extra items where a leak has occurred, and where measured defects (dents, gouges, corrosion etc) have been measured
- Retrospective data not required but accepted if available
- Currently no joining fee – this may change……no annual fee – part of UKOPA membership
- Please contact Roger Ellis or Rod McConnell for data input forms