

Issue: Spring 2005

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President's Message:

We are well into the New Year of 2005. I know all of our readers are starting new projects. Budgets are much influenced by safety, security, and company re-organizations to support acquisitions, mergers, productivity & efficiency improvements as well as a continued effort in IMP compliance Programs.

MOORE Resource Systems (MOORE) continues its strategy of broadening into a wider range of pipeline management applications to complement its renowned data services. Conversion, integration and migration with integrity management and compliance have been well received by the pipeline industry. MOORE also continues to support open systems and standards such as PODS and APDM. MOORE staff actively participates in the technical committees.

MOORE's recently introduced Pilot Programs to demonstrate "Value" and define scope to reduce risk have been widely applauded. Please contact Keith Cote at 713.398.6225 / kcote@moorers.com for information concerning these programs.

I would like to thank all of those clients who so generously gave their time to meet with me during my annual President's visits including the GITA '04 Conference in Houston. To those whom I have not yet had an opportunity to visit, I look forward to doing so in the near future. A customer satisfaction survey will be sent out giving you an opportunity to determine your level of satisfaction with products and services to assess which enhancements / improvements you would like to see in our products and services offerings.

Thank you and Best Wishes for 2005,

Andrew Nellestyn PhD PEng
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PipeILI (In-Line Analysis Inspection TOOL) for PipeWORKS

PipeILI is the in-line inspection (ILI) station alignment tool contained in the PipeWORKS suite of applications from MOORE Resource Systems (MOORE). *PipeILI* is tailor made for the pipeline inspection industry, and facilitates the alignment of pipeline inspection data station values from stated control point stations prior to inserting into an enterprise asset database. *PipeILI* provides an easy-to-use, point-and-click environment that works with your existing data architecture.

PipeILI supports a variety of inspection source data formats including Microsoft SQL Server, Oracle, Microsoft Access, Microsoft Excel and ASCII text. ILI vendors submit this data after the inspection or 'pigging' of segment(s) of enterprise pipeline systems. The wheel-count distance starting from the 'launcher' location and ending at the 'receiver' location along the pipeline segment references all 'pigged' data. The Control Point information will be either part of the inspection run or inserted into the inspection data sheet after the run.

Row Num	Record ID	Feature	Wheel Count	Event Name	Source Sta	Actual Sta	Confirmed	Comment
0	1000002	LOCATION	0	VALVE	150	150	<input checked="" type="checkbox"/>	Valve Sta
473			28482.9708	ELBOW	28396	0		
616			28257.66	ELBOW	28272	0		
1190	1000003	LOCATION	59668.412629	VALVE	59637	59530	<input checked="" type="checkbox"/>	Valve Sta
1270	1000007	LOCATION	60213.352348	WAFER	60085	0		ASMT00
1605			78008.232	ELBOW	57045	0		
3285	1000001	LOCATION	112387.348247	VALVE	113390	113394	<input checked="" type="checkbox"/>	Valve Sta
3527	1000006	LOCATION	127124.862272	VALVE	126792	0		Valve Sta
3690	1000004	LOCATION	183986.878002	VALVE	183982	0		Valve Sta
3952	1000008	LOCATION	208960.345782	VALVE	208222	208222.71	<input checked="" type="checkbox"/>	Valve Sta
4256	1000010	LOCATION	205882.616742	VALVE	205550	205550	<input checked="" type="checkbox"/>	Valve Sta
4474	10000118	LOCATION	238482.758114	CASING	238540	0		Begin Ca
5236	10000132	LOCATION	274195.918232	CASING	272790	0		Begin Ca

Figure 1: The new PipeILI tool interface.

relation to the control point station values. The resulting engineering station value will then be written back to a specified column in the source data. *PipeILI* is a tool that will help your business:

- Quickly align inspection data with the engineering station from your enterprise production database.
- Automate the alignment process of the inspection data with your facility data.
- Reduce the wait time for delivering the most current asset data to your ILI vendor to commence the inspection 'pigging' of your enterprise pipeline systems.
- Improves data management by timely integration of pipeline in-line inspection data sheets.
- Improves staff productivity by automating the calculation of station values to match the current production asset database.
- Makes pipeline in-line inspection data more readily available to the people who perform risk management analysis. ■

PipeILI reads all the inspection data in wheel-count order from the source data and provides a graphical interface for displaying the relevant enterprise information on identified control points. ILI source data control points are verified against your facility data within tolerances to ensure your calculating the stationing based on valid information. The operator can then modify the control point status to ignore or include specific points. Upon acceptance of these control points, *PipeILI* will calculate the stationing subject to the wheel-count data in relation to the control point station values.

Application Configurability

At MOORE, application configurability is one of the key goals when developing a product. We believe the more easily configurable an application is then the more self-sufficient the application user can become. This also helps to reduce future costs related to minor application modifications. Our maintenance applications support global system configurability. A simple graphical user interface (GUI) allows administrative users to change variables or add new tables and fields for availability within the application.

The process begins by identifying a new feature or event from your business that must be stored in the PODS model. The event is identified as a point, linear or continuous linear and the requisite physical structure is added to the model by your DBA. Make sure the new addition follows the same construct as other PODS tables. The PipeWORKS administrative users can then complete the remaining configuration changes through PipeMAP and PipeEDIT. Typically, it takes less than 10 minutes to add new tables or fields for availability within PipeWORKS.

Other possible configuration changes include changing the format (color, thickness, text style, height etc.) of data being reported though PipeASG or PipeNET. The method or layout of reported data is also configurable. PipeBULKLOAD allows users to create field-to-field mapping templates that customize their bulk data loading requirements within minutes.

The configurability of an application is often overlooked until it is too late. The inability to make simple changes to allow an application to grow with your business frustrates users. This leads to a lower user satisfaction and overall waning of interest in your application project. It also requires management to spend additional funds to make your application vendor incorporate the applicable changes. If you suspect that you have fallen into this scenario then you should re-evaluate your application goals and insist on application improvements or investigate alternative applications that may be more configurable and user friendly. Please give us a call if you want to discuss this in further detail. Let us help your team be productive today and empower them to expand your maintenance application functionality as required by your changing business practices. ■

The PODS Bulletin

As a member of the PODS Technical Committee, MOORE continues to be actively involved in the development and enhancement of the PODS model. Some of the specific items the PODS Association is working on include:

NPMS & Texas RRC data storage

The PODS data model currently does not contain fields to store all required National Pipeline Mapping System and Texas Railroad Commission Mapping data. This should be rectified by version 3.3

PODS documentation

The PODS Association has hired a consultant to complete full documentation of the upcoming PODS 3.3 version. This will include a complete data dictionary along with detailed explanation of the purpose of each table and their connectivity and relationships to other tables.

Improved historical data tracking

New fields are being added to improve the existing “in-the-model” data storage methods. The concept of storing history “out-of-the-model” is also being reviewed for possible documentation and inclusion within the PODS 3.3 release.

Advance Training and PUG

MOORE will be presenting an advanced PODS user-training course on March 10th. ChevronTexaco is hosting this event; refer to the Events section in this newsletter for more details. MOORE staff will also be at the co-shared APDM/PODS/PPDM both at the PUG conference. Please drop by and tell us your PODS stories.

Your PODS Tip

This regular section will include a brief idea or suggestion to achieve better results from your PODS model.

How can I help improve the PODS data model?

The current success of the PODS data model can be attributed in large part to the quality feedback provided by the operators that utilize the model. Without this feedback, data model issues are more difficult to identify for resolution. This response also helps prioritize the order that future enhancements are completed. Feedback can be in the form of working on the board, technical committee or related sub-committees. In addition, feedback can be provided to any of the personnel working within these positions. Lastly, there is a PODS forum located at www.pods.org/forum where you can post and review comments and suggestions related to the PODS data model. ■

MOORE Resource Systems Partnership Projects

MOORE continues to strive for excellence in providing Pipeline Industry Operators with the Best-Of-Breed Products/Services. Integrity Management drives the business; in this regard projects including In-Line Inspections are forever projects on the table to satisfy DOT/OPS Requirements. Initial Projects for ILI Standardization, Designing Templates, Data Base Integration with GIS, and Migration have begun. MOORE will announce partners for this effort soon. ■

Comments from Our Customers

“Enterprise Products Operating, L.P. (EPOLP) contracted with MOORE Resource Systems (MOORE) to convert an existing proprietary database into the Pipeline Open Data Standard (PODS). Moore was chosen based on their demonstrated technical competency in data conversion for previous clients. Along with the data conversion services, EPOLP maintains about 13,000 miles of pipeline assets using MOORE PipeWorks (PipeMap and PipeEdit) suite of products. The new MOORE PipeBulkLoad has proven effective in loading large amounts of validated data into our central PODS database. MOORE has been invaluable in addressing EPOLP’s initial project concerns of initial conversion, ongoing data loading requirements and maintenance of the integrity of the data over time.”

Gary Hoover – Analyst Records/Data/GIS - Enterprise Products Operating L.P. – Houston, TX ■

Operator Sound Off

“With the new DOT/OPS regulations management is seeing the value the ConocoPhillips PODS model can add. The number of ILI runs and HCA Overland Spread and Hydrographic Flow work being done this year is enormous. This creates a dilemma of how to get data bulk loaded into a PODS model where the ILI tables and the HCA tables are in flux. We know we’re going to add a few columns and maybe an extra table here and there. With that in mind please look for vendors that do not hard code field names any more. Vendor software needs to be dynamic so extra fields and tables can be easily adopted into existing software without getting charged as an enhancement. Another point is database integrity after data has been added, how does an operator QC their data to make sure it follows the PODS model standards, the next step is a database integrity checking software.”

Jay Williams - GIS Analyst, Terminals & Pipeline Eng. - ConocoPhillips – Ponca City, OK ■

Upcoming Events

ESRI Petroleum User Group (PUG) Conference:

When: Monday March 07, 2005 through Wednesday March 09, 2005

Where: JW Marriott Hotel, Houston, TX.

Info: <http://esri.com/events/pug/index.html>

PODS Workshop (Forum):

Theme: PODS Implementation

When: Thursday March 10, 2005

Where: 2811 Hayes Road, Houston, TX.

Info: <http://www.pods.org>

ChevronTexaco will be hosting a PODS Technical Workshop in Houston on Thursday March 10th, 2005. This full-day workshop is an excellent opportunity to build your technical understanding of the PODS model and share experiences with others about your implementation of PODS in a real operating environment. A general understanding of database technology would be helpful. Previous experience in the PODS model is beneficial but not required. The workshop will consist of technical discussions about the model and its main components such as hierarchy definition, pipeline stationing and methods for getting your enterprise connected and using the data. This will include dialog about various implementation strategies, including examples from actual pipeline operators. The implementation strategies will focus on key project management topics to assist project managers in gaining a better understanding of PODS in relation to their existing project needs. This will help to ensure that their PODS projects are a success. Mr. Rod Burden, a member of the PODS Technical committee, will lead the workshop; for more information, please contact Rod at rburden@moorers.com. Seating is limited and advanced registration is required. More than one attendee per company is permitted but each person attending must register individually.

Register for the workshop at http://www.pods.org/1_home_meetingreg.shtml. This workshop is free to PODS members and US\$200 per person for non-members, paid in advance. Thank you in advance to ChevronTexaco for hosting this workshop. ■