

Safety Management Systems

Steve Kean
President & Chief Operating Officer

Overview

- Kinder Morgan assets: diverse energy transportation and storage assets handling multiple commodities
- Kinder Morgan's precursor to the SMS: Operations Management System (OMS)
- Our approach to constructing a Management System lessons learned
- Benefits of the Management System
- Next steps closing gaps

Natural Gas Pipelines

Segment Outlook

Well-positioned connecting key natural gas resource plays with major demand centers

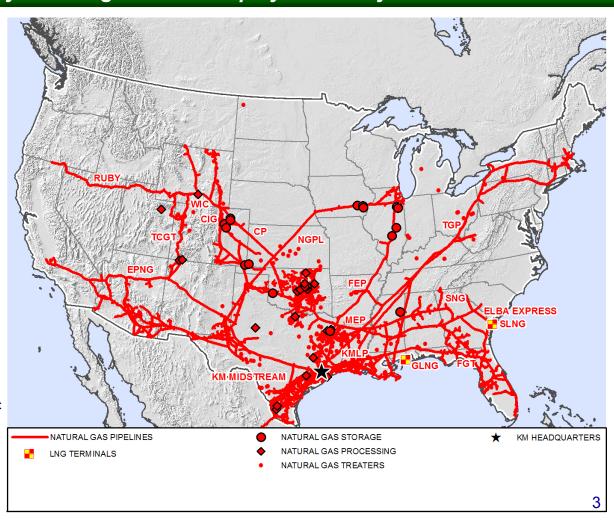
Project Backlog:

- \$5.3 billion of identified growth projects over next seven years^(a), including:
 - LNG liquefaction (FTA at Elba Island)
 - Pipe projects supporting LNG liquefaction projects
 - TGP north-to-south projects
 - Eagle Ford gathering & processing
 - SNG / Elba Express expansions
 - Expansion to Mexico border

Long-term Growth Drivers:

- Natural gas the logical fuel of choice
 - Cheap, abundant, domestic and clean
- Unparalleled natural gas network
 - Sources natural gas from every important natural gas resource play in the U.S.
 - Connected to every major demand center in the U.S.
- Demand growth and shifting supply from multiple basins
 - Power / gas-fired generation
 - Industrial and petchem demand
 - Growth in Mexican natural gas demand
 - Repurposing portions of existing footprint
 - Greenfield development
- LNG exports
- Expand service offerings to customers
- Acquisitions

- Very good project development performance: on a net basis within 1% of approved costs on major projects
- Better than industry average performance on release and safety measures
- On-time compliance with EHS requirements: 99+%
- (a) Excludes acquisitions and dropdowns, includes KM's share of nonwholly owned projects. Includes projects currently under construction.



Products Pipelines

Segment Outlook

Opportunities for growth from increased liquids production

Project Backlog:

- \$1.9 billion of identified growth projects over next two years^(a), including:
 - Cochin reversal / conversion
 - Eagle Ford condensate processing
 - KMCC extensions
 - KMCC-Double Eagle interconnect

Long-term Growth Drivers:

- Development of shale play liquids transportation and processing (e.g. UTOPIA)
- Repurposing portions of existing footprint in different product uses (e.g. Y-grade)
- Extension of refined products pipeline system into Southeast U.S. (e.g. Palmetto Pipeline)
- Tariff index adjustments
- Tuck-in acquisitions
- Recovery in refined product volumes

- Very good project development performance: on a net basis within 1% of approved costs on major projects
- Better than industry average performance on release rates on liquids pipelines (Products, CO₂, KMC)
- Better than industry average performance on safety measures
- On-time compliance with EHS requirements: 99.8%

PACIFIC CYPRESS CONDENSATE PROCESSING ★ KM HEADQUARTERS NGL PIPELINES REFINED PRODUCTS PIPELINES KMP PRODUCTS PIPELINES TERMINALS NGL TERMINALS CONDENSATE PROCESSING FACILITY KMP TRANSMIX FACILITIES (UNDER CONSTRUCTION)

⁽a) Excludes acquisitions, includes KM's share of non-wholly owned projects. Includes projects currently under construction.



Terminals

Segment Outlook

Well-located in refinery / port hubs and inland waterways

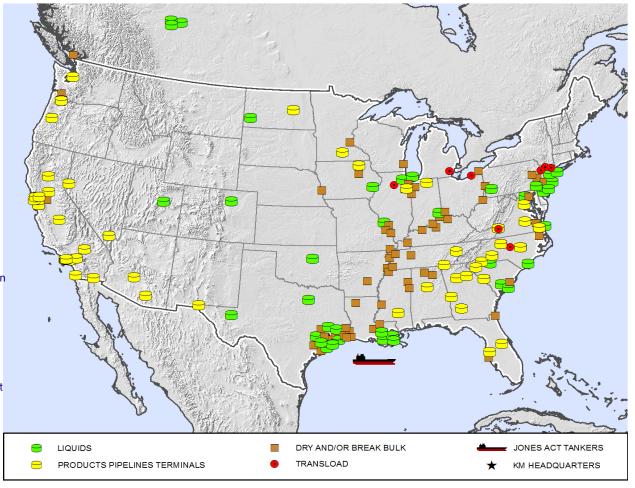
Proiect Backlog:

- \$2.3 billion of identified growth projects over next five years^(a), including:
 - BOSTCO Phase 3
 - Alberta crude by rail projects
 - Chemical terminal development
 - Jones Act tanker builds
 - Houston terminals network expansion
 - Edmonton Phase 2 expansion
 - Fairless Hills LPG

Long-term Growth Drivers:

- Gulf Coast liquids exports
- Crude oil merchant tankage (e.g. Edmonton)
- Crude by rail
- Chemical infrastructure and base business growth built on production increases
- Increased Jones Act tanker fleet
- Tuck-in acquisitions
- Potential investment in coal reserves and other natural resources

- Project development performance: 6.8% overrun on a net basis across major projects
- Better than industry average performance on all safety measures – continuous improvement over several years
- On-time compliance with EHS requirements: 99.5%



⁽a) Excludes acquisitions, includes KM share of non-wholly owned projects. Includes projects currently under construction. Includes 31 terminals to be contributed to Watco.

CO₂ Segment Outlook

Own and operate best source of CO₂ for EOR^(a)

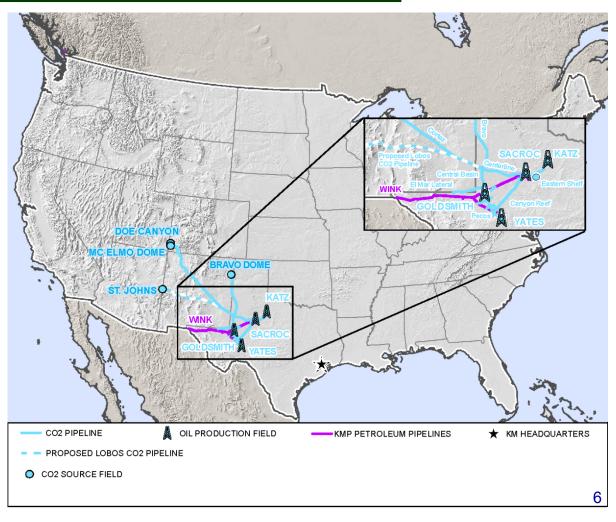
Project Backlog:

- Identified growth projects totaling \$1.4 billion and \$2.0 billion in S&T and EOR^(a), respectively, over next five years^(b), including:
 - S&T
 - Southwest Colorado CO₂ production
 - St. Johns build-out
 - Cortez and Lobos pipelines
 - EOR
 - SACROC / Yates / Katz / Goldsmith / Residual Oil Zone (ROZ)

Long-term Growth Drivers:

- Strong demand for CO₂ drives volume and price
- Billions of barrels of domestic oil still in place to be recovered at SACROC, Yates, Katz and Goldsmith, as well as Residual Oil Zone opportunities

- Project development performance: within 6% on a net basis across major projects (overrun)
- Slightly better than industry average on three of five safety measures
- On-time compliance with EHS requirements: 99.9%
- (a) EOR = Enhanced Oil Recovery.
- (b) Excludes acquisitions, includes KM's share of non-wholly owned projects. Includes projects currently under construction.



Kinder Morgan Canada

Segment Outlook

Sole oil pipeline from Oilsands to West Coast / export markets

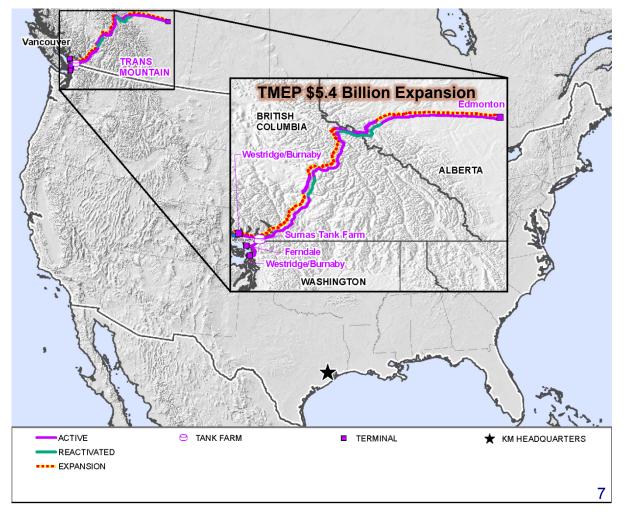
Project Backlog:

■ \$5.4 billion expansion of Trans Mountain Pipeline

Long-term Growth Drivers:

- Expand Oilsands export capacity to West Coast and Asia
 - Following successful open season, major expansion plans under way
 - The Trans Mountain Pipeline Expansion Project (TMEP) more than doubles capacity, from 300 MBbl/d currently to approximately 890 MBbl/d
 - Strong commercial support from shippers with binding long-term contracts (~93% 20-yr, ~7% 15-yr) for 708 MBbl/ d of firm transport capacity
 - Projected cost of \$5.4 billion
 - Proceeding with project design, planning and consultation
 - NEB facilities application filed in December 2013
 - Expected in-service 2018
- **■** Expanded dock capabilities (Vancouver)
 - TMPL expansion will increase dock capacity to over 600 MBbl/d
 - Access to global markets

- Project development performance: in early stages on TMEP, but commercial terms include good cost protection on "uncontrollable" costs
- Better than industry average on safety measures
- On-time compliance with EHS requirements: 99.6%



Kinder Morgan's OMS Components

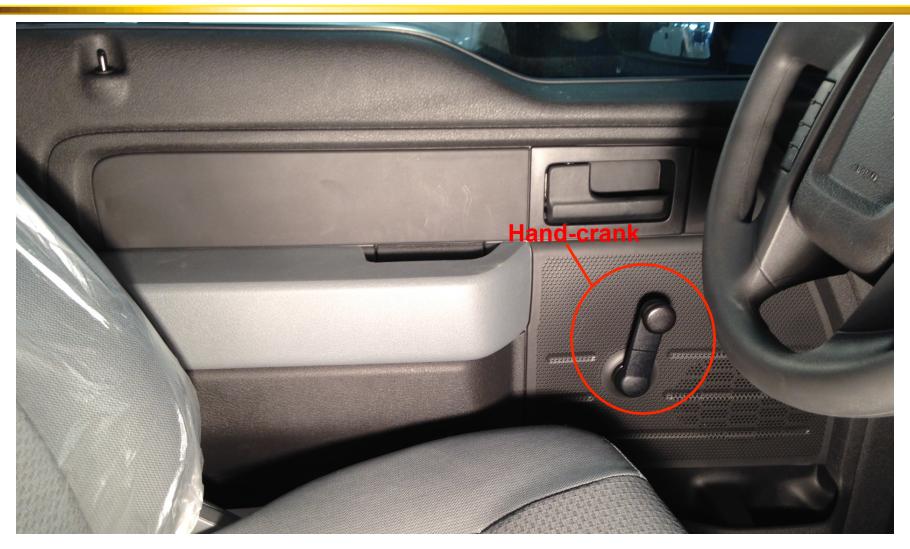
- Scope: Comprehensive Covers safety (risk reduction), operations efficiency, quality assurance, project management and integration of acquired assets/companies
- Objectives
- Policies
- Roles and Responsibilities all employees, business unit management (president, VP of Operations and EHS), Operations Group (collection of the business unit heads of operations), Office of the Chairman (CEO, President/COO, CFO)
- Processes (annual, quarterly, monthly, weekly, and event-driven e.g. acquisitions)
- Audit and assessment
- Review and amend OMS (at least annually)

Benefits of the Management System

- Management attention to operations issues
 - All disciplines brought to bear, not only EHS; not compartmentalized
 - Better understanding of risks; improved resource allocation
- Making safe, compliant operations routine part of what we do every day
- Institutionalizing continuous improvement
- Improved safety and compliance performance



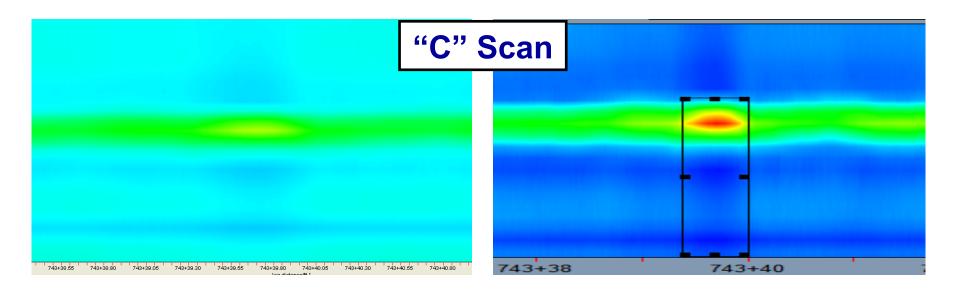
Focusing on What Matters





Focusing on What Matters: KMAP Technology Circumforential MEL Data Comparison

Circumferential MFL Data Comparison



Normal Presentation for Metal Loss

KMAP Presentation
Optimizes Graphic for
Seam Weld Defects



Next Steps – Closing Gaps to the SMS Standard

- More detailed statement of certain requirements: e.g., MOC, QA/QC, incident investigation, ERP, review of others' incidents
- Additional documentation requirements
- Additional communication requirements, including external stakeholder engagement and employee survey



Kinder Morgan's Approach to Constructing and Implementing a Management System – the Importance of Adapting it to the Company Culture

- Added operations reporting to the most important Kinder Morgan processes
 - Ask yourself: What are the most important meetings/processes in the organization? Which ones are senior officers involved in?
- Aligned OMS responsibilities with organization
 - KM has diverse operations
 - Consequently, KM has strong business unit focused (decentralized) organization
 - This required much of the execution of the OMS to be at the business unit level where the information, expertise and resources reside.
 - Ask yourself: Where are the resources, authority and accountability in your organization?
- We put the OMS actions into the compliance system used for EHS this ensured actions were assigned, deadlines created, exceptions reported
 - Use your compliance system to ensure follow through



The Management System

	Annual	Quarterly	Monthly	Weekly
Vision (Strategy)	■ Budget Process	Quarterly Business Review		Weekly asset meeting
Financial Excellence	Budget ProcessInvestorConference	Quarterly Business ReviewsQuarterly earnings updates	 Earnings meetings Accounts receivable meetings Major Projects updates 	Weekly asset meeting
Operational Excellence (Operations Management System)	 Budget Process Audit and Assessment Plan OMS review and revision IMP Review 	 Quarterly Business Review Quarterly Operations Meetings Quarterly Working Group Meetings (regulatory, incidents, asset integrity, disaster prep./resp./recovery, etc.) 	 Reporting – compliance system, audit tracking, one calls, incidents, etc. Business unit operations meetings Major Projects updates 	 Weekly asset meeting (operations performance and incidents)



Conclusions

- Harness the power of your best current processes to implement the SMS
- Align roles/responsibilities and requirements with your organizational structure – don't create a separate organization
- Use your existing compliance system to ensure fulfillment of the SMS (including assigned tasks to upper management)

