

### Implementing PM Principles by Analyzing Your Company's Maturity

PMI of Northern Nevada Presentation September 2013



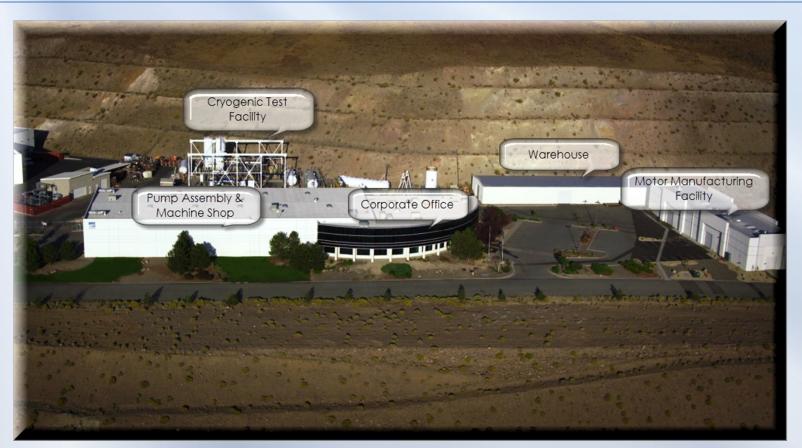
#### **Review of Today's Presentation**

- Part 1
  - Overview presentation of the local company I currently work
- Part 2
  - Open discussion regarding implementing PM
    Principles in a company that is currently maturing



## EBARA

#### Ebara International – Cryodynamics Division Sparks, Nevada, USA





#### **Company Profile**



- Manufacturer of custom engineered liquefied
  gas pumps
- Located in Sparks, Nevada, USA
- Division of Ebara Corporation of Japan
- 30,000 ft<sup>2</sup> (2790 m<sup>2</sup>) factory with a modern, dedicated liquefied gas test facility
- Current annual revenue ~\$125 million
- 170 employees at main factory
- 50 employees at newly acquired machine and fabrication shop
- 9 employees in London Sales/Service office
- 3 employees in our Shanghai Sales/Service office
- ISO 9001 Certified (DNV)
- Over 6000 submerged motor liquefied gas pumps and expanders built to date
- 3 out of 4 submerged LNG pumps installed were built by Ebara.
- Over 3400 pumps for LNG, LPG carriers





#### Local Community Outreach

- Kerak Shrine Circus
- Star Spangled Sparks Children's game Area Sponsor
- Sparks Chamber of Commerce Best Kid's Sponsorship Two Schools
- Sparks Chamber of Commerce Scholarship Sponsor
- Reno/Sparks Gospel Mission
- Big Brothers/Big Sisters of Northern Nevada
- Local Bowling Team/Club Bryan Blank Sponsorship
- Marvin Picollo Elementary School
- SYFL JV Reed Raiders
- Galena High School Football Program
- Reno Sunrise Rotary: Edible Pedal 100
- Sky Tavern Junior Ski Program
- Boys & Girls Club of Truckee Meadows



## EBARA

#### **Company History**

- Established in 1973 as an American Corporation (Cryodynamics), located in Southern California
- 1979: Relocated facilities to Sacramento, California, built first test facility
- 1979-1984: Division of Worthington Pump Corporation
- 1984-1989: Joint venture partnership with Ebara
  Corporation
- 1989-Present: Wholly owned by Ebara Corporation
- 1994: Relocated to Sparks, Nevada



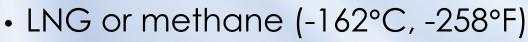
#### **Summary of Customers**

Bechtel BP **Brunei LNG** CB&I Chevron Chiyoda **Daewoo Shipbuilding Darwin LNG** Egypt LNG Enagas **Equatorial Guinea LNG Fujian LNG** Hammerfest Snohvit LNG HQCEC Hudong Zhongua Shipyard Hyundai Heavy Industries IHI Japan Gas JGC

**KBR** Korea Gas Samsung Heavy Industries Shell Malaysia LNG MHI Nigeria LNG **Oman I NG** Pertamina QatarGas **Ras Laffan LNG** Saipem Sakhalin ING Sofregaz Sonatrach Technigaz Tractebel Woodside LNG



#### **Types of Liquid**



Propane (-42°C, -44°F)

ERA2/

- Butane (+0.6°C, +33°F)
- Ethylene (-104°C, -155°F)
- Nitrogen (-196°C, -320°F)
- Propylene (-48°C, -54°F)
- Ethane (-89°C, -128°F)
- Ammonia (-33°C, -28°F)

Basically, any liquefied gas that is non-conductive and has a low temperature boiling point at atmospheric pressure.



#### **Test Stand**





#### **Test Stand**

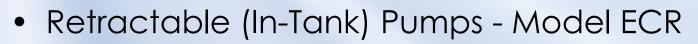


### Ebara's Stand is the largest one of its kind in the world

- Five pump test tanks
- One Expander tank
- Up to 6 tests per day
- Customized to specific requirements
- Some of the parameters tested:
  - Flow Rate (Rated, Minimum & Max)
  - NPSHR
  - Discharge Pressure (head) and Temperature
  - Suction Pressure and Temperature
  - Voltage, Amperage and motor input power
  - Vibration Level



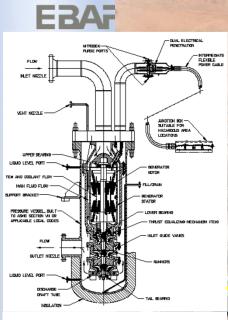
#### **Product Line**



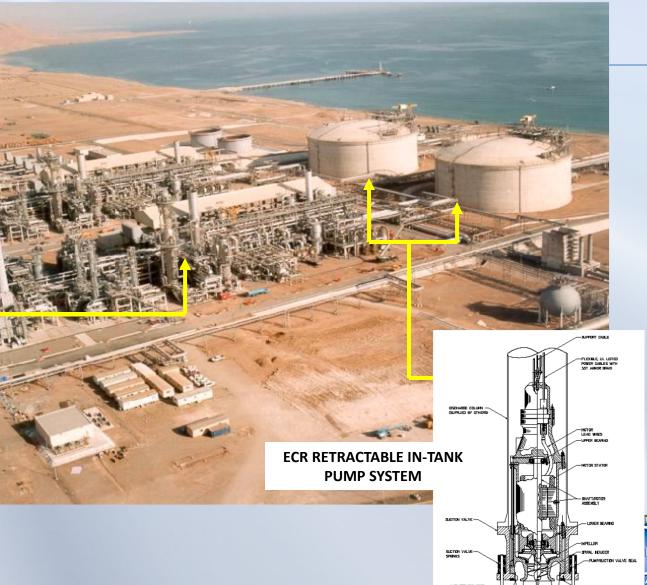
- Suction Vessel Mounted Pump Model ECC
- Marine Cargo Handling Pumps Model EC
- Aggressive Fluid Pumps Model ACR
- Cryogenic Turbine Expanders Model LX and VX

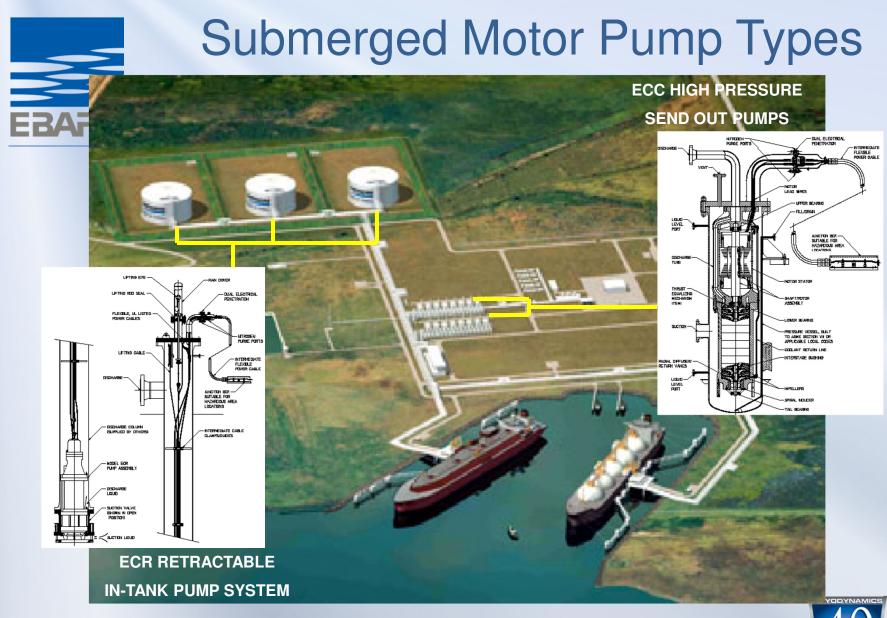


#### Submerged Motor Pump Types



TG RADIAL FLOW TURBINE GENERATOR



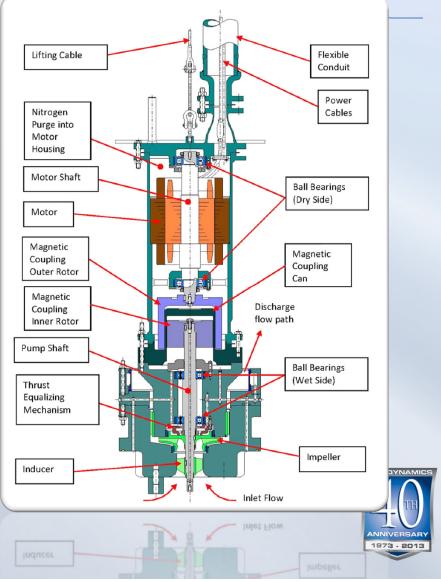






#### Aggressive Fluid Design Model AC

- Magnetic Coupling
- Sealed Grease filled
  bearings in dry side
- Product lubricated bearings in wet side
- Motor in sealed, nitrogen purged housing
- Materials comparable with corrosive or aggressive chemical applications



#### Accomplishments

 Developed unique "Thrust Equalizing Mechanism" to balance thrust loads in cryogenic fluids (1973)

EBARA

- Developed first variable speed turbine expander for LNG service (1995)
- Developed first magnetic coupling pump used in ammonia service (1996)
- Developed only UL listed flexible cryogenic power cables (1990)
- EIC was the first to develop fuel gas pumps used for dual fuel LNG carriers
- First two-phase LNG expander (2001)





# EBARA

#### **Company Summary**

- Highly Engineered for customer specific applications
- Self own many companies that provide necessary components: Motor Shop, Weld Shop, Machine Shop, and Test Facility
- Product market is extremely limited so customer satisfaction is priority.
- On time shipment, under budget, and scope change/creep are still difficult to manage!





#### Open Discussion – Implementing PM Principles

- Questions to begin with:
  - What are the challenges that exist with a company that has limited or no experience with PM Principles?
  - What are your options to present and implement these principles?
  - How does one identify the solutions that best fit your company's maturity?
  - How do you handle failures and continue to move forward?





### Where to begin - Analyzing your companies PM maturity

 Do you often feel like your job title entails everything but project management?



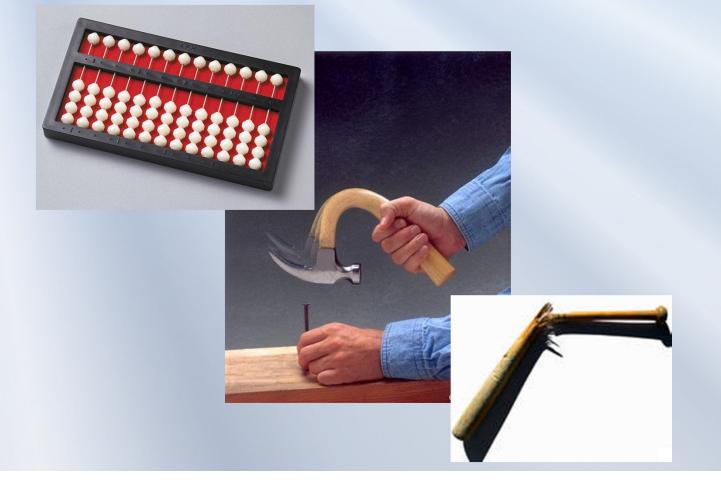






### Where to begin - Analyzing your companies PM maturity

• Are the tools that you have been given not adequate to assist you with your work?





## Where to begin - Analyzing your companies PM maturity

- Are team members and management aware of the basic building blocks of project management?
  - Project Phases
  - Charter
  - Project Plan
  - Etc.
- What is the status of current work procedures?
  - Are they detailed with work instructions?
  - Are they available, but lacking important details and processes
  - Procedures? What's a procedure?





## Where to begin – PM Department Evolution

- Project Manager The beginnings
  - Work consisted of:
    - Customer/internal communicator
    - Create Monthly reports with schedule
    - Complete the "WBS" template in our ERP system with dates provided by internal departments
  - Viewed internally as:
    - Customer Liaison
    - Score Keeper between departments
    - Document Expeditor
    - Clean up crew for all work left without a "defined" home





#### Where to begin – Typical Schedule

| _    | _  | F   |          |              |              |   |
|------|----|---|----------|--------------|--------------|---|
| ID   | 0  | Task Name   | Duration | Start        | Finish       | 2011<br>Aor Mew Jun Jul Aug Sep Oct Nov Dec Jan Feb Mer Aor Mew Jun – |
| 1    |    | P.O. Receipt  | 0 days   | Fri 5/21/10  | Fri 5/21/10  | 242 May 341 342 240 OCT Nov Dec 340 P40 May 341 4                     |
| 2    |    | Receive P.O. in Sparka  | 0 days   | Fil 5/21/10  | Fil 5/21/10  |   |
| 3    | 1  | Order implementation  | 61 days  |              |              |   |
| 4    | ž  | Contract Review Board Apprv1                                      | 30 days  | Mon 5/24/10  | Fil 7/2/10   |   |
| 5    | 1  | Internal Kick-Off Meeting   | 7 days   | Fil 8/6/10   | Mon 8/16/10  |   |
| 6    | 2  | Intial Document Submittal (Note 1)                                | 140 days |              | Fri 2/25/11  |   |
| 7    | 1  | Document List   | 7 days   |              | Tue 8/24/10  |   |
| 8    | Č. | GA Drawing  | 35 days  |              | Fri 10/1/10  |   |
| 9    |    | Data Sheet & Curve  | 35 days  |              | Fil 10/1/10  |   |
|      | ~  | Assembly Drwg w/Spare Parts                                       | 55 days  | Mon 12/13/10 | Fil 2/25/11  |   |
| 11   |    | Quality Plan  | 35 days  | Mon 8/16/10  | Fri 10/1/10  |   |
| 12   | 1  | Key Apprv'l Docs-Reg'd to Proceed                                 | 115 days | Mon 10/4/10  | Fri 3/11/11  |   |
| 13   | 1  | GA Drewing  | 115 days | Mon 10/4/10  | Fil 3/11/11  |   |
| 14   | ~  | Engineering   | 73 days  | Mon 8/30/10  | Wed 12/8/10  | ÷   |
| 15   | 1  | Initial Layout Review   | 2 days   | Mon 8/30/10  | Tue 8/31/10  |   |
| 16   | 1  | Long Lead Item Release  | 10 days  | Thu 9/2/10   | Wed 9/15/10  |   |
| 17   | 1  | Final Layout/ Complete B.O.M.                                     | 5 days   | Mon 10/11/10 | Fri 10/15/10 |   |
| 18   | ~  | Mechining Drewings  | 60 days  | Thu 9/16/10  | Wed 12/8/10  |   |
| 19   | 1  | Procurement   | 139 days |              | Thu 4/14/11  | ¢   |
| 20   | 11 | Castings (One casting is being replaced the rest have been rec'd) | 130 days |              | Thu 4/14/11  |   |
| 21   | ~  | Stator & Rotor  | 61 days  | Mon 12/13/10 | Mon 3/7/11   |   |
| 22   |    | Manufacturing   | 109 days | Mon 12/6/10  | Thu 5/5/11   |   |
| 23   | 11 | Machining (Most machining will be complete by mid March)          | 105 days | Mon 12/6/10  | Fil 4/29/11  |   |
| 24   |    | Hydrotest   | 1 day    | Mon 5/2/11   | Mon 5/2/11   |   |
| 25   | 11 | Assembly  | 3 days   | Tue 5/3/11   | Thu 5/5/11   |   |
| 28   |    | Testing   | 1 day    | Fri 5/6/11   | Fri 5/6/11   |   |
| 27   | 11 | Wtness Testing  | 1 day    | Fil 5/6/11   | Fil 56/11    |   |
| 28   |    | Shipment  | 6 days   | Mon 5/9/11   | Mon 5/16/11  |   |
| 29   |    | Final Inspection  | 1 day    | Mon 5/9/11   | Mon 5/9/11   | <b>u</b>  |
| 30   | 11 | Peckaging & Shipment  | 5 days   |              | Mon 5/16/11  |   |
| 31   | 1  | Progress Payment Schedule (None Specified)                        | 24 days  |              | Thu 6/16/11  |   |
| 32   | 11 | Shipment-100%   | 24 days  | Mon 5/16/11  | Thu 6/16/11  |   |
| 33   |    |   |          |              |              |   |
| 34   |    |   |          |              |              |   |
| 35   | 1  |   |          |              |              |   |
| 36   | 1  |   |          |              |              | 1   |
| - 10 | 1  | i   |          | -            |              | 1   |





#### Where to begin – WBS Template

🗶 Golar West Java FSRU

A15 ADMIN

A20 PROJECT MANAGEMENT

- A25 PROJECT ME
- C10 ENGINEERING DESIGN
  E10 RELEASE TO PRODUCTION
- F10 PRODUCTION
  F20 NON CONFORMANCE

| ntt Sub Proj | ect Activity List | Activity Resource Tasks Analysis Summary His | tory Planning        | Valid Report Code | s Activity Hours           | Project Docume     |
|--------------|-------------------|--|----------------------|-------------------|----------------------------|--------------------|
| Activity ID  | Responsible<br>ID | Activity<br>Description                      | Activity<br>Sequence |                   | rly Baseline<br>hish Start | Baseline<br>Finish |
| 010          | BSCHEIN           | Reports                                      | 100061920            | 1/1/2011 1/       | 15/2021 1/1/2011           | 1/15/2021          |
| 020          | BSCHEIN           | Customer Correspondence                      | 100061921            | 1/1/2011 1/       | 15/2021 1/1/2011           | 1/15/2021          |
| 030          | BSCHEIN           | Internal Correspondence                      | 100061922            | 1/1/2011 1/       | 15/2021 1/1/2011           | 1/15/2021          |
| 040          | BSCHEIN           | Supplier Correspondence                      | 100061923            | 1/1/2011 1/       | 15/2021 1/1/2011           | 1/15/2021          |
| 100          | RDALBOL           | Customer Monthly Progress Report             | 100061924            | 1/31/2011 1/3     | 31/2011 1/31/2011          | 1/31/2011          |
| 101          | RDALBOL           | Customer Monthly Progress Report             | 100061925            | 2/28/2011 2/2     | 28/2011 2/28/2011          | 2/28/2011          |
| 102          | RDALBOL           | Customer Monthly Progress Report             | 100061926            | 3/28/2011 3/2     | 28/2011 3/28/2011          | 3/28/2011          |
| 103          | RDALBOL           | Customer Monthly Progress Report             | 100061927            | 4/28/2011 4/2     | 28/2011 4/28/2011          | 4/28/2011          |
| 104          | RDALBOL           | Customer Monthly Progress Report             | 100061928            | 5/24/2011 5/2     | 24/2011 5/28/2011          | 5/28/2011          |
| 105          | RDALBOL           | Customer Monthly Progress Report             | 100061929            | 6/28/2011 6/2     | 28/2011 6/28/2011          | 6/28/2011          |
| 106          | RDALBOL           | Customer Monthly Progress Report             | 100061930            | 7/28/2011 7/2     | 28/2011 7/28/2011          | 7/28/2011          |
| 107          | RDALBOL           | Customer Monthly Progress Report             | 100061931            | 8/28/2011 8/2     | 28/2011 8/28/2011          | 8/28/2011          |
| 200          | RDALBOL           | Internal Monthly Progress Meeting Report     | 100061936            | 1/31/2011 1/3     | 31/2011 1/31/2011          | 1/31/2011          |
| 201          | RDALBOL           | Internal Monthly Progress Meeting Report     | 100061937            | 2/28/2011 2/2     | 28/2011 2/28/2011          | 2/28/2011          |
| 202          | RDALBOL           | Internal Monthly Progress Meeting Report     | 100061938            | 3/28/2011 3/2     | 28/2011 3/28/2011          | 3/28/2011          |
| 203          | RDALBOL           | Internal Monthly Progress Meeting Report     | 100061939            | 4/28/2011 4/2     | 28/2011 4/28/2011          | 4/28/2011          |
| 204          | RDALBOL           | Internal Monthly Progress Meeting Report     | 100061940            | 5/24/2011 5/2     | 24/2011 5/28/2011          | 5/28/2011          |
| 205          | RDALBOL           | Internal Monthly Progress Meeting Report     | 100061941            | 6/23/2011 6/2     | 23/2011 6/28/2011          | 6/28/2011          |
| 206          | RDALBOL           | Internal Monthly Progress Meeting Report     | 100061942            | 7/28/2011 7/2     | 28/2011 7/28/2011          | 7/28/2011          |
| 207          | RDALBOL           | Internal Monthly Progress Meeting Report     | 100061943            | 8/25/2011 8/2     | 25/2011 8/28/2011          | 8/28/2011          |
| 900          | BSCHEIN           | Milestone - Kick Off Meeting                 | 100061906            | 1/27/2011 1/2     | 27/2011 1/27/2011          | 1/27/2011          |
| 901          | BSCHEIN           | Milestone - GA Drawings/Data Sheet Submittal | 100061907            | 3/1/2011 3/       | 1/2011 2/24/2011           | 2/24/2011          |
| 902          | BSCHEIN           | Milestone - ITP/WITP Submittal               | 100061908            | 3/4/2011 3/4      | 4/2011 3/5/2011            | 3/5/2011           |
| 906          | BSCHEIN           | Milestone - Major Components on Order        | 100061912            | 2/14/2011 2/2     | 14/2011 2/14/2011          | 2/14/2011          |





#### Where to begin – WBS Template

- Key takeaways from the WBS:
  - WBS was very departmentalized and not project focused
  - Activities were set to the entire project duration
  - Meant for time reporting and not a tool during project execution
  - The tool was there, but was not being utilized



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## First Step – Understanding All Department Procedures/Processes

 How well do you understand all department procedures and processes that interact with your project?



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#### First Step – Process Mapping

- Analysis: Project Plan, Project Schedule and Company Department Procedures were lacking
- Created a charter template and introduced the term "Charter" to the company
- Obtained GM signature and Department Manager Sign off.
- Mapped overall project process and every department process





#### First Step – Process Mapping

Charter Presented

1<sup>st</sup> EIC Charter

High Level Process Flow Developed

**Tier I Process Flow** 

- Created "Tier II" Process Flows to understand each department's processes
- Inadequate WBS/Schedule for the High Level Process created



# EBARA

#### First Step – Process Mapping

- Outcome:
  - Introduced PM Principles to the company without changing any current processes
  - All departments were included and educated as to each step in the project and the PM tools being used
  - PM Department had processes mapped in order to establish a complete project schedule





#### PM Principle Introduction – Evolving the Role

- Initiated further Process Improvements to better execute projects
  - PM's collaborated to created the first detailed Project Schedule using Tier I Process Map, department SME's, and knowledge of the typical projects

#### **1st Project Schedule**

 Project Management involvement played a key role during the "Project Execution" Process Improvement Kaizen which lead to a much more streamlined Project Schedule and introduction to "Phase Gate" project execution.

#### Final Project Schedule

 An infant Project Plan was also introduced at this time. It contained a Communication Plan, Risk/Mitigation Plan, Escalation Plan, and housed all internal Meeting Minutes.





#### PM Principle Introduction – Evolving the Role

- Managing Projects by Phase Gates
  - Each gate is a hold point in the project
  - Management and Team review activities, costs, and schedule at each Gate Review

|               | PROJECT EXECUTION STAGE GATE REVIEW PROCESS |                    |   |  |  |                                 |  |                                |                                   |                                   |                              |                  |                                 |        |
|---------------|---|--------------------|---|--|--|---------------------------------|--|--------------------------------|-----------------------------------|-----------------------------------|------------------------------|------------------|---------------------------------|--------|
|               | PO EXECUTION PLANNING                       |                    | DESIGN & DEVELOPMENT - LL BOM   |  | DESIGN & DEVELOPMENT -<br>BALANCE      |                                 | PRODUCTION PLANNING AND BUILD          |                                | FINAL ACCEPTANCE TESTING          |                                   | READY FOR SHIPMENT           |                  | DOCUMENTATION COMPLETE          |        |
|               | Scope Review Meeting                        |                    | Long Lead Pump Layout Meeting   |  | Final Layout (Pump, System) and        |                                 | Verify Receipt of Major Materials (PO  |                                | Factory Acceptance Test Completed |                                   | As Built Documents Submitted |                  | Sumit Final Documentation       | 1      |
|               |   |                    | w/DFMA Point Kaizen   | Final BOM release (Pump, System) Cont<br>and supporting Ops documents build<br>(ITNDS, JBDI, .etc) | Req's)                                 |                                 | Engineering Sign Off                   | Punch List Closed              |                                   |                                   |                              |                  |                                 |        |
|               | Complete Initial Customer Documents         |                    | LL BOM and DWG Release  |  | Confirm Certifications on Material for |                                 |  |                                |                                   | Prep for Project Closeout Meeting | 1                            |                  |                                 |        |
|               |   |                    |   |  | and supporting Ops documents           | , I                             | build                                  |                                |                                   |                                   |                              |                  |                                 |        |
|               |   |                    |   |  |  |                                 |  |                                |                                   |                                   |                              |                  |                                 |        |
| ¥             | Project Schedule Completed                  |                    | Long Lead System Layout Meeting   |  |  | Complete Material Budget Review |  | Final Acceptance Budget Review | Inspections Completed             |                                   | Final Budget Review          |                  |                                 |        |
| Work          |   |                    | w/DFMA Point Kaizen   |  |  | j I                             |  |                                |                                   |                                   |                              |                  |                                 |        |
| é             | WBS in IFS (Budgets, Dates, Owners)         |                    | LL System BOM and DWG release<br>with Finish Schedule                       | Receive Supplier Schedules   | Scope vs Baseline Review               |                                 | Scope vs Baseline Review               |                                | Items Packaged                    | So                                | Scope vs Baseline Review     |                  |                                 |        |
| _ ₽_          |   |                    |   |  |  |                                 |  |                                |                                   |                                   |                              |                  |                                 |        |
|               | Project Templates completed (Risk           |                    | Release Weldment Drawing  |  | Balance Budget Review                  | Gate 3                          |  | ate 4                          |                                   | 2                                 | Shipment Budget Review       |                  |                                 |        |
|               | Plan, Communication Plan, .etc)             | -                  | (Headplate/Vessel)  | ŝ  |  |                                 |  |                                |                                   |                                   |                              | o<br>و           |                                 | $\sim$ |
|               | Payment Milestone Completion                | ate                | LL Budget Review  | ate  | Scope vs Baseline Review               |                                 |  |                                |                                   |                                   | Scope vs Baseline Review     | ate –            |                                 | Gate   |
|               | Initial Budget Review                       | G                  | Scope vs Baseline Review  | υυ   |  | Ű                               |  | G                              |                                   | _ 0                               |                              | _ <sup>(7)</sup> |                                 |        |
|               |   |                    |   |  |  |                                 |  |                                |                                   | -                                 |                              | _                |                                 | _      |
|               |   |                    |   |  |  |                                 |  |                                |                                   |                                   |                              | _                |                                 | 4      |
|               | Checklist Complete                          | Checklist Complete |   |  | Checklist Complete                     |                                 | Checklist Complete                     | _                              | Checklist Complete                | _                                 | Checklist Complete           | _                |                                 |        |
| Exit Criteria | Project Schedule Approved by                |                    | Operations Confirmation of LL BOM<br>Releases<br>Scope vs Baseline Approval |  | Operations Confirmation of Balance     | _                               | Confirmation of Production Supporting  |                                | FAT/Engineering Sign Off Complete |                                   |                              |                  |                                 |        |
|               | Departments                                 |                    |   |  | BOM Releases                           |                                 | Project Schedule                       |                                |                                   | _                                 |                              |                  |                                 | _      |
|               | WBS in IFS Baselined                        |                    |   |  | Confirmation of Production Supporting  |                                 | Confirmation that Project is Ready for |                                | Scope vs Baseline Approval        |                                   | Scope vs Baseline Approval   |                  | Scope vs Baseline Approval      |        |
|               |   |                    |   | Project Schedule   | FAT                                    |                                 |  |                                |                                   |                                   | _                            |                  |                                 |        |
|               | Customer Documents Submitted                |                    | LL Budget Approval  |  | Scope vs Baseline Approval             |                                 | Scope vs Baseline Approval             |                                | Customer Documents Submitted      |                                   | Customer Documents Submitted |                  | Customer Documents Submitted    | _ !    |
|               | Initial Budget Approval                     |                    | Approved Changes Reviewed   |  | Balance Budget Approval                | -                               | Customer Documents Submitted           |                                | Final Acceptance Budget Approval  |                                   | Shipement Budget Approval    |                  | Final Budget Approval           | _ !    |
|               | Approved Changes Reviewed                   |                    |   |  | Approved Changes Reviewed              |                                 | Complete Material Budget Approval      |                                |                                   |                                   |                              |                  |                                 | _      |
|               |   |                    |   |  | Project Pump/System Complete           |                                 |  |                                |                                   |                                   |                              |                  | Documentation Submitted/Project |        |
|               | BASELINE APPROVED                           |                    | Project Pump/System LL BOM Relea  |  | BOM Released                           |                                 | Receipt of all Material                |                                | Pump/System signed off            |                                   | Project Shipment             |                  | Closed                          |        |





#### PM Principle Introduction – Evolving the Role

- Brief Recap:
  - Charter is now introduced
  - A typical project schedule created
  - The beginnings of a Project Plan are being utilized
  - Phase Gates have been introduced
- What areas are missing that should be focused on?
  - Change Management Plan
  - Cost Management Plan
  - Others?





#### PM Principle Introduction – Iterative Attempts

- Next two are examples of implementing PM Principles using iterative attempts.
  - Plan, execute, evaluate, and adjust
- Implementing PM Principles is a good first step, but you have to make sure you evaluate the effectiveness and adoption amongst the company and within every department.





#### PM Principle Introduction – Iterative Attempts

- Change Management Plan
  - Recently Introduced and met with huge departmental resistance

Change Management

**Process Flow** 

- CEO and department managers bought off and were supportive of the procedure
  - Remember: Always have the correct support to sign off on your initiative.
- It is also important to have all impacting players included in development of new PM procedures for site acceptance
  - Change Management Procedure left out key personnel during development which led to further iterations before release
- If you have to reevaluate your process/procedure don't view this as a failure. This is how processes are improved!
- Plan, execute, evaluate, and adjust!





#### PM Principle Introduction – Iterative Attempts

- Cost Management Plan
  - Management driven request which spawned the creation of this plan
  - No visibility to monthly expenditures, over budgets, or labor costs
  - Costs were only tracked at the end of a project or if a project was over it's budgeted total
  - A tool was created that worked for us instead of working for it!
  - Still required to export data out of the database and manipulate in Excel. Data integrity may be an issue in the future.
  - Management response was very positive as this information was previously not visible





#### Company's Maturity – Next Steps

- The transformation of the PM Department has been extensive in the last two years. The role of the Project manager has expanded and they are responsible for a much greater depth in the project then ever before.
- What does the future hold for further development of this role?





#### Company's Maturity – Next Steps

- This company has accepted the need for implementing PM Principles.
- These principles were introduced slowly at first in order to gain understanding and acceptance.
- After management understood and became used to the terms they saw a need for further development.
- This has lead to an explosion in new processes with further development ahead on the horizon.





#### Company's Maturity – Next Steps

- Management is driving towards the PM as the internal "customer" to other departments.
- Future Steps:
  - PM initiates the schedule based on needs and departments assign resources based on availability
  - Creation and implementation of RACI's to drive ownership and accountability
  - Expansion of PM roles for internal process improvement projects and participation in the Product Development Department



#### Summary



- PMP certifications play a crucial role in providing individual PM's and PM Departments with the knowledge and credibility to implement such changes
- Successfully implementing PM Principles is often correlated to how a company understands the role of a Project Manager.
- As the company matured in understanding PM Principles additional processes were implemented
- Management needs to be involved and included.
- Leave room for adjustments based on company feedback.
- Ensure that the processes empower the employee/PM.
- Plan, execute, evaluate, and adjust!





- What are some of your success stories?
- Questions?

