OLF - IRMA - AMBASEC
Group Model Building Report

September 7-8, 2005
Norsk Hydro, Sandsli
Bergen, Norway
Group Modeling Report Outline

• Attendees
• Wednesday September 7, 2005
  – 13:00 – 17:00
    • History of Brage Overview Presentation
    • Onshore Control Presentation by [?]
    • Introductions
    • Brage Work Process Presentation
    • Risk Matrix Presentation
  – 17:00 – 22:00
    • Concept Model / Briefing on Previous Workshop
    • ...
    • ...
    • Words needed here…
Group Modeling Report Outline (cont’d)

• Thursday, September 10 2005
  – 09:00 – 12:00
    • Review Previous Day
    • Integrating Technology and Process
    • Workflow Overview
    • Incidents: Frequency and Severity, Learning From Incidents
    • Technology, Work Process and Knowledge Transition chains
  – 13:00 – 15:30
    • Work planning for SINTEF and AUC

• Friday, September 11, 2005
  – Debrief Workshop
IRMA - OLF - AMBASEC Workshop
25-26. May 2005
Grimstad

NEEDS UPDATE
## Attendee List [Needs Update]

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SINTEF Briefing Summary goes here
Production Optimization Workflow

SINTEF, draft materials, September 9, 2005
Brage IS Architecture

DISCOS: Distributed Supervisory Control and Safety System
NAS: Nedsatsingsanleggssystem
PAS: Processanleggssystem
OPC:
OPIS:
PDP: Prosesstapporter
SCL: Sikkerhetsoperasjonsstøtte
PROFF:
CM: Containment monitor (ABB)
LPM: Loop performance monitor (ABB)
Telekom infrastruktur forbindelse felt - land

SINTEF, draft materials, September 9, 2005
Policy Thinking

→ INVENT A POLICY
   TO IMPROVE THE TRANSITION

* CHANGE ONE (OR MORE) PARAMETERS

* TELL A STORY OF WHAT THOSE PARAMETERS REALLY MEAN

* PREDICT WHAT WILL HAPPEN.

Model Boundary Assumptions

- Time Boundary ≈ 10-12 yrs.
  (60 months)
- Feds Today is on RIPE
- Policy FRAME
Work Process Development Timeframe

[Break out each and explain rationale]
Overview (May Meeting)

- Desired CSIRT Capacity
- Risk
- CSIRT Capacity
- New Security Procedures
- Integration of New Security Procedures
- Mature Security Procedures
- Detected Risk
- Compliance
- Damage
- Damage Resolution
- Threats

- Perception of frequency of incidents
- Traditional Security Procedures
- New Security Procedures
- Integration of New Security Procedures
- Mature Security Procedures
- Early Detection
- Threats

- Capacity in Traditional Ops
- Capacity in Integrated Ops
- Work Process and Capacity
- Required Work Process and Capacity
- Risk

- Traditional Work Processes
- New Work Processes
- Integration of New Mature Work Processes
- Mature Work Processes
- Effectiveness of Collaborative Workplaces

-Traditional Knowledge in Plant
- New Knowledge in Plant
- Integration of New Knowledge
- New Competence Across Plants

- Tradition
- Risk

- Mitigation Workload
- Ability to Mitigate
- Ability to Evaluate
- Mitigation

- Formal Risk Assessment
- Workload
- Compliance
- Required Knowledge
- Threats

- Learning About Incidents
- Learning About Response
- Knowledge About Incidents
- Fear of Security Breaches
- Resistance to Change
- Integration of New Security Procedures

- Integration of New Knowledge
- Knowledge Gap

- Early Detection
- Risk
- Damage Occurring

- Ability to Detect Incidents
- Early Detection

- Ability to Mitigate

- To Integration of New Security Procedures
Something here about the brainstorm of Trond, et al. after we left
Workflow Overview, Th, 11 AM
Workflow Overview, Th, 11 AM

Incidents:

- Frequency
- Severity

Learning From Incidents

Maturity of security procedures
Maturity of technology
Maturity of work processes
Maturity of new knowledge

Resilience
Knowledge Gap

Org Change
--Load
-Resistance

New Security Procedures
Mature Security Procedures

New Technology
Integrating New Technology
Mature Technology

New Work Processes
Integrating New Work Processes
Mature Work Processes

Traditional Work Processes

Implementing new work procedures

Traditional Knowledge
Implementing new knowledge
New Knowledge
Integrating New Knowledge
Mature Knowledge
Incidents: Frequency and Severity, Learning From Incidents, TH noon
Incidents: Frequency and Severity, Learning From Incidents TH noon

New Security Procedures

Mature Security Procedures

New Technology

Getting mature technology online

Mature Technology

Resilience of technology

Incidents

New Work Processes

Integrating New Work Processes

Mature Work Processes

Organizing capacity to change

Change Load

Resistance to change

Enabling

New Knowledge

Implementing new knowledge

Mature Knowledge

Knowledge about incidents

New Work Processes

Implementing new work procedures

New Security Procedures

Integrating New Security Procedures

Knowledge Gap

Experience

Change Management Team Resources

Getting mature technology online

Pressure of inside threats

Incident reporting

Use of off the shelf technology

Segregation of platform technologies

"distance" between traditional and mature technology

New Work Processes

New Knowledge

Mature Knowledge

Training

Need training

Ability to plan and backup

Competence gap

Traditional Work Processes

Implementing new work procedures

Traditional Knowledge

Implementing new knowledge
Technology, Work Process and Knowledge Transition chains with supporting structure, Th noon
Technology, Work Process and Knowledge Transition
chains with supporting structure, Th noon

Use IRMA Risk Assessment Matrix to think through vulnerabilities such as outsider and insider threats using prototype model and collaborative model co-development.

*MGet averages from best available risk matrix and update and disaggregate as risk assessment matures.
The pathway to modeling success

Completeness

Complexity

The Road To Success

The Road To Failure
Integrated best-of [TBD]
Report Appendices and Archive

• Appendix A: Discussion Notes
• Appendix B: Presentations
  – SINTEF
  – Albany / AUC (x2)
• Appendix C: Index to Archive
  – Photographs (by photographer)
  – Modeler Feedback Images (.pdf)
  – Simulation Models
    • Concept Model (Vensim)
    • Hydro 1 Model [Do we do this?]
• Appendix D: Workplan
Still to do – Monday, 5 PM

- Review meeting notes and look for leftover items
- Go over pix and capture the bullet lists on several images
- Make new picture page
- Update e-mail page
- Attach public agenda as appendix
- Do the leftovers listed in above slides
- Anything else, David?