Good IDEF0 Task Models
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- Follow IDEF0 rules.
- Tell a “transformative” story.
- Model operator tasks.
- Show other transformations.
- Model important by-products/side effects.
- Model human performance-shaping factors.
- Model guidance information, other constraints.
- Model user(s)/operator(s).
- Model tools, equipment, etc.
- Provide sufficient level of detail.
Good IDEF0 Task Models

- Follow IDEF0 rules and guidelines, e.g.,
  - verb phrases in boxes
  - noun phrases on arrows
  - 3-6 boxes per diagram (except A-0)
  - All boxes in diagram have same “flavor,” e.g.,
    - level of detail
    - parallel construction (same label syntactic structure)
- Functionally dominant boxes towards upper left
- etc.
Good IDEF0 Task Models

- Follow IDEF0 rules.
- Tell a “transformative” story:

![Diagram showing system/world in initial state, change the system/world, and system/world in desired/goal state. Child diagrams show intermediate states.]

Follow IDEF0 rules.

Tell a “transformative” story:
Good IDEF0 Task Models

- Follow IDEF0 rules.
- Tell a “transformative” story.
- Model operator tasks as IDEF0 activities:
  - Enter/ingress
  - Plan …
  - Prepare …
  - Configure/setup …
  - Monitor …
  - Control …
  - Communicate …
  - Detect …
  - Decide …
  - Diagnose …
  - Evaluate …
  - Maintain …
  - Predict …
  - Exit/egress
  - etc.
Good IDEF0 Task Models

- Follow IDEF0 rules.
- Tell a “transformative” story.
- Model operator tasks.
- **Show other transformations as inputs/outputs, e.g.,**
  - parts, materials, supplies, etc. to be used
  - documents, records to be updated
  - tools, equipment, devices, etc. to be prepared, configured, setup to be used (as mechanisms)
  - etc.
Good IDEF0 Task Models

- Follow IDEF0 rules.
- Tell a “transformative” story.
- Model operator tasks.
- Show other transformations.
- Model important by-products/side effects as outputs, e.g.,
  - reports
  - documents
  - other communication
  - waste
  - etc.
Good IDEF0 Task Models

- Follow IDEF0 rules.
- Tell a “transformative” story.
- Model operator tasks.
- Show other transformations.
- Model important by-products/side effects.
- **Model human performance-shaping factors as controls, e.g.**
  - Environmental factors
  - Time & other stressors
  - Fatigue
  - Other user/operator factors
  - System/equipment factors
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- Tell a “transformative” story.
- Model operator tasks.
- Show other transformations.
- Model important by-products/side effects.
- Model human performance-shaping factors.

**Model guidance information, other constraints as controls, e.g.**
- orders
- policies, procedures, checklists
- rules, regulations
- etc.
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**Provide sufficient level of detail to**
- demonstrate deep understanding of system, tasks
- support requirements development