

SANDIA REPORT

SAND2020-1230995

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SYS800 Report Diagrams

Working Copies

Dulce Barrera

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Project Charter Template

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Problem/Opportunity Statement:

Currently the black box system is in the design and development phase. As the system design undergoes qualification & transitions to the production phase it will be key to evaluate, determine and integrate accident based requirements and capabilities into the design

Design Objectives:

- The system will include....
- The system shall be able to....
- If project parameters allow, the system should be incorporated into parts of design

Project Objectives:

- Identify system(s) that will be used to develop the design & will contain the design details
- Link communication channels and increase knowledge sharing between designers and accident response team
- Conduct work per the existing processes, designs, & procedures. Develop and implement additional tools as needed (Optimal solution & continuous improvement focus)

Scope Information:

- Scope includes the design capabilities, procedures, and processes that meet the needs of our customers
- This Project facilitates design and requirements to meet both short-term and long-term customer business objectives & requirements

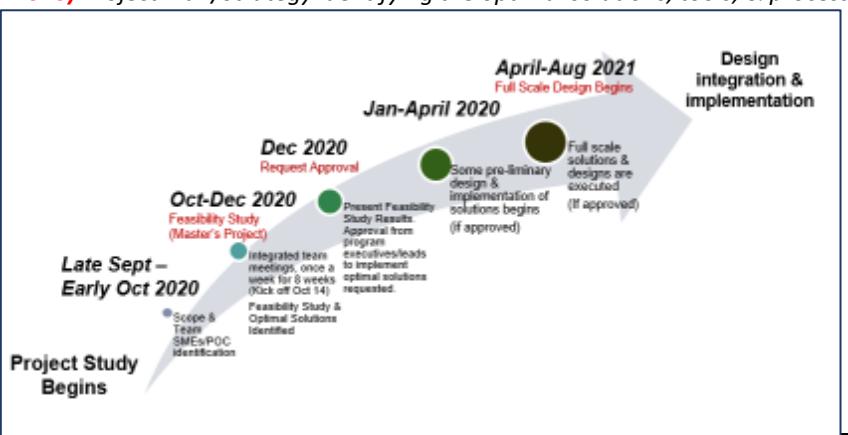
Project Constraints:

- Resources (people), project schedule, limited funding
- Security constraints: Broad spectrum of portioning of information in various classification categories

Deliverables:

- Documents: Feasibility Study & Project Plan
- Identification of integrated mission, organizational objectives, goals, milestones, & systems engineering elements

Schedule Summary: (Sept 2020-November 2020) Project Plan/Strategy identifying the optimal solutions, tools, & processes (April 2021-Aug 2021) Definition of Design, design development and integration



Dates:

Sept 2020-November 2020 (Master's Project)

- 9/22/2020: Identify Stakeholders & pinpoint scope & needs
- 9/28/2020: Prework for feasibility study begins
- 10/14/2020: Official project & feasibility study 'kick off'
- 10/31/2020: First Draft of Master's paper submitted
- 11/30/2020: Final Master's Project Report submitted
- 4/1/2021: Design Begins

Champion: Manager

Sponsors: Lead

Team Lead: Dulce Barrera

Team Members:

- Design Subsystem Lead 1
- Design Team member 1 (SME)
- Design Subsystem Lead 2
- Accident Response Team Lead 1
- Accident Response Team Member 2
- Accident Response Team Member 3
- Design Team Emergency Response Lead & Point of Contact (POC)
- Systems Engineering Lead
- Systems Engineering Team member
- Quality engineer

Strategic/Business Objective Tie:

- Align accident response and design team mission, organizational objectives, goals, milestones, performance

Drivers:

Key Terms:

Scoping**Step 1**

- Conduct a Market Survey & Interviews

Step 2

- Identify Objectives & Generate the Problem Statement
- Understand OPS/CONOPS & identify criteria of importance (people vs system)

Develop & Evaluate Alternatives**Step 3**

- Generate Possible Ideas/Methods (SME input – Technical, processes, and information management solutions)

Step 4

- Evaluate Alternatives (PICK Chart/Weighed Decision)

Identify Tentatively Selected Plan**Step 5**

- Identify leading alternative based on analysis & define supporting feasibility attributes (Cost, Schedule, Implementation Details including assembly model & milestones)

Leadership Decision**Step 6**

- Inform Project Executives/Leads. Present Recommended path/solutions

Emergency Response Team

Interview 2:
Emergency Response Team interviewed
Number of interviewee(s): 3

Design Team

Interview 1:
Team member tasked with action from Design Review interviewed
Number of interviewee(s): 1

Interview 3:
Design Team Emergency Response Lead/POC interviewed
Number of interviewee(s): 1

Interview 4:
Subsystem Leads interviewed
Number of interviewee(s): 2

Interview 5:
Systems Engineers Interviewed
Number of interviewee(s): 2

Interview 6:
Designers for subsystems (Subject Matter Experts) interviewed
Number of interviewee(s): 2



