



Incident Command Information Tool (ICIT) for Drinking Water Protection

Project Plan

October 15, 2003

Science Applications International Corporation

Project Plan

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Purpose

Develop an Incident Command Information Tool (ICIT) that enables decision makers to evaluate and take actions against terrorist attacks on public drinking water sources in real time

Scope

- ◆ Integrate multiple sources of information to give decision makers concise summaries of current conditions and forecasts of future consequences of terrorist acts on public water supply safety

- ◆ The system will be GIS-based and the output will be compatible with
 - Defense Threat Reduction Agency's (DTRA) Consequences Assessment Tool Set (CATS)
 - Federal Emergency Management Agency's HAZUS system
 - Environmental Protection Agency's Situation Room
 - Chemical Biological Response Aid (CoBRA)

Requirements

- ◆ Include the real-time RiverSpill model
- ◆ Include the National Hydrography Dataset (NHD)
- ◆ Process data received from field sensors

Requirements (cont.)

- ◆ Include the following databases: sensor locations; dams, reservoirs, and locks; surface water bodies; public drinking water intakes; roads and other terrestrial transportation networks; topography; and population
- ◆ Web-based
- ◆ Track human pathogens, toxic chemicals, and radioactive substances

Phases

- ◆ Requirements
- ◆ Pilot
- ◆ Operational

Requirements Phase

- ◆ Conduct Kickoff Meeting (8/18/2003)
- ◆ Conduct User Requirements Workshop (10/15/2003)
- ◆ Development Software Requirements Specification
- ◆ Develop Project Implementation Plan
- ◆ Conduct Preliminary and Critical Design Reviews

Pilot Phase

- ◆ Integrate Existing Components and Databases
- ◆ Provide Compatibility with CATS, HAZUS, Situation Room and CoBRA
- ◆ Develop Interfaces with Sensors, Reports and Hospital Admissions Data
- ◆ Integrate GIS Layers and Databases to Display Water Threats
- ◆ Provide Secure Web-based Access

Pilot Phase (cont.)

- ◆ Track Pathogens, Chemicals and Radioactive Substances
- ◆ Conduct Test Readiness Reviews
- ◆ Conduct Training Prior to Alpha Testing
- ◆ Prepare Alpha System Test Plan
- ◆ Conduct Alpha System Test
- ◆ Prepare Alpha System Test Report

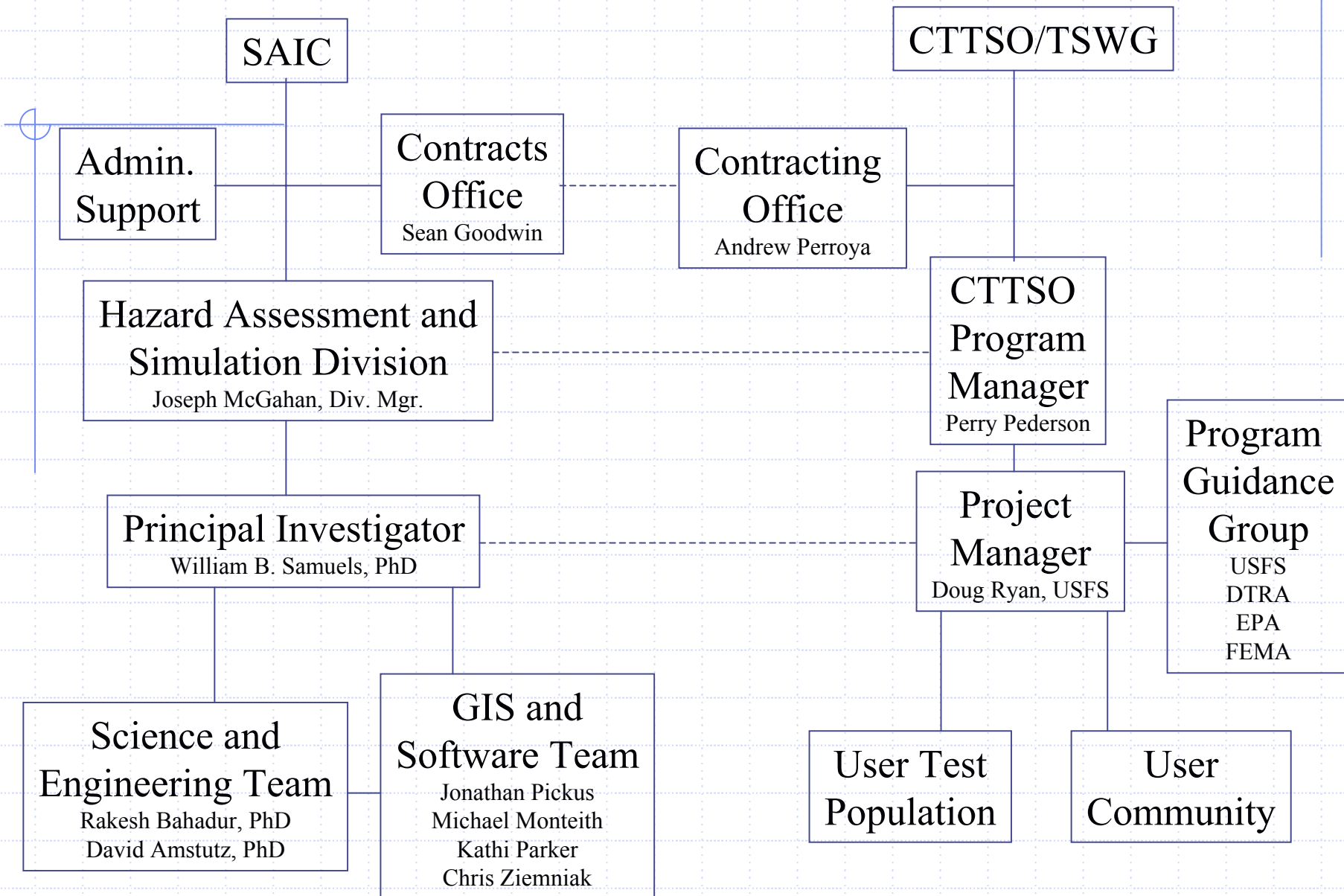
Operational Phase

- ◆ Conduct Test Readiness Reviews
- ◆ Develop Beta Test Plan
- ◆ Develop User's Manual
- ◆ Conduct Operational Demonstration and Training
- ◆ Conduct Beta System Test
- ◆ Prepare Beta System Test Report

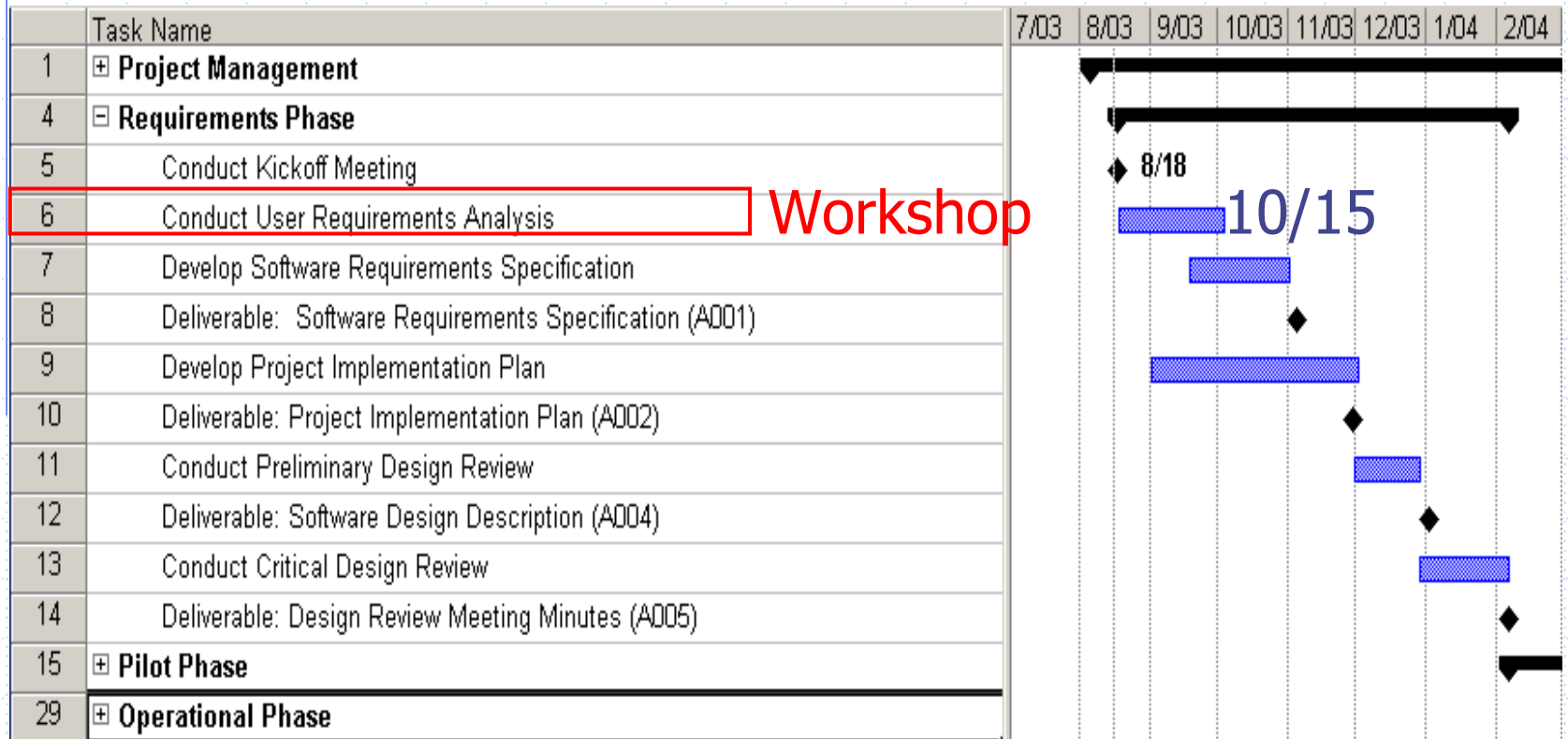
Operational Phase (cont.)

- ◆ Perform System Administration Functions
- ◆ Perform Configuration Management Functions
- ◆ Develop Technology Transition Plan
- ◆ Prepare Final Report

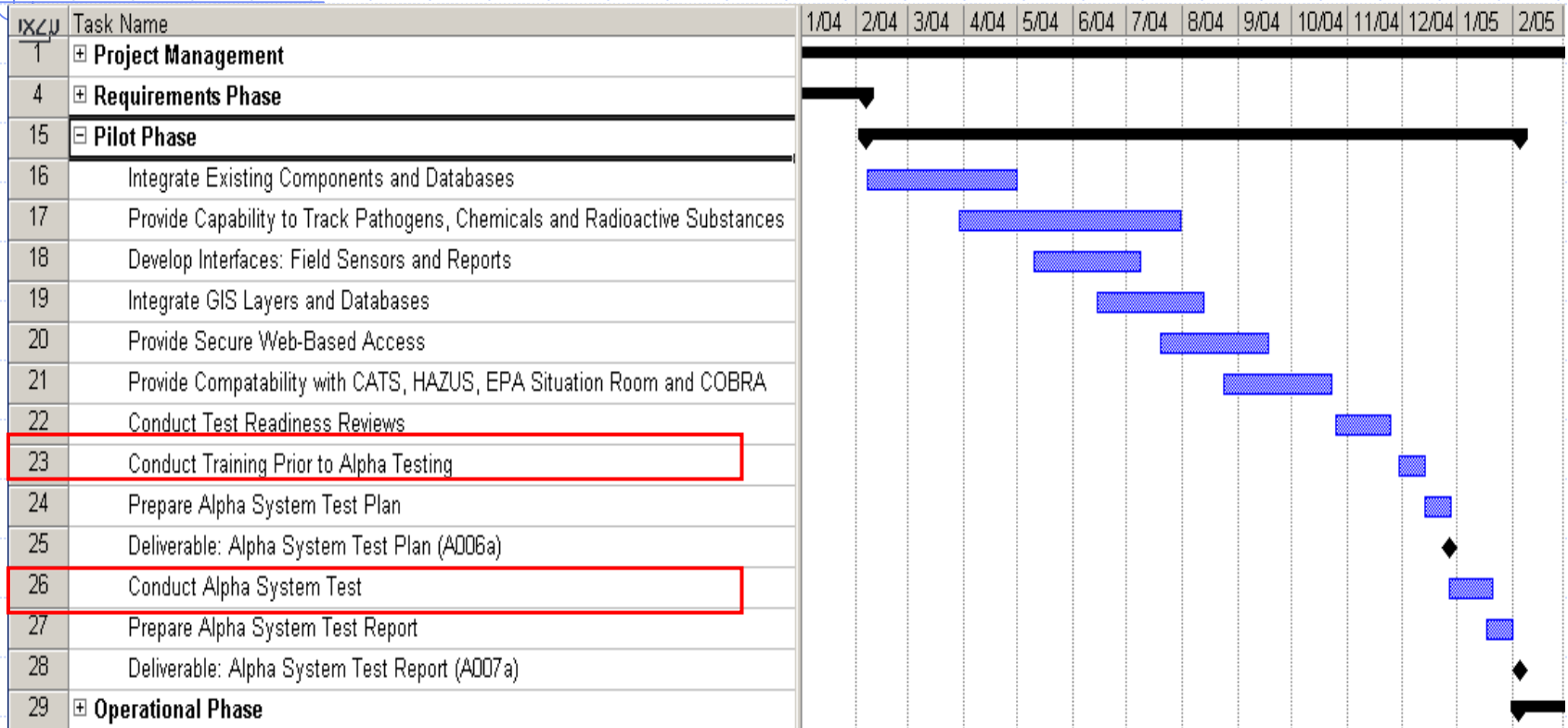
ICIT PROJECT TEAM



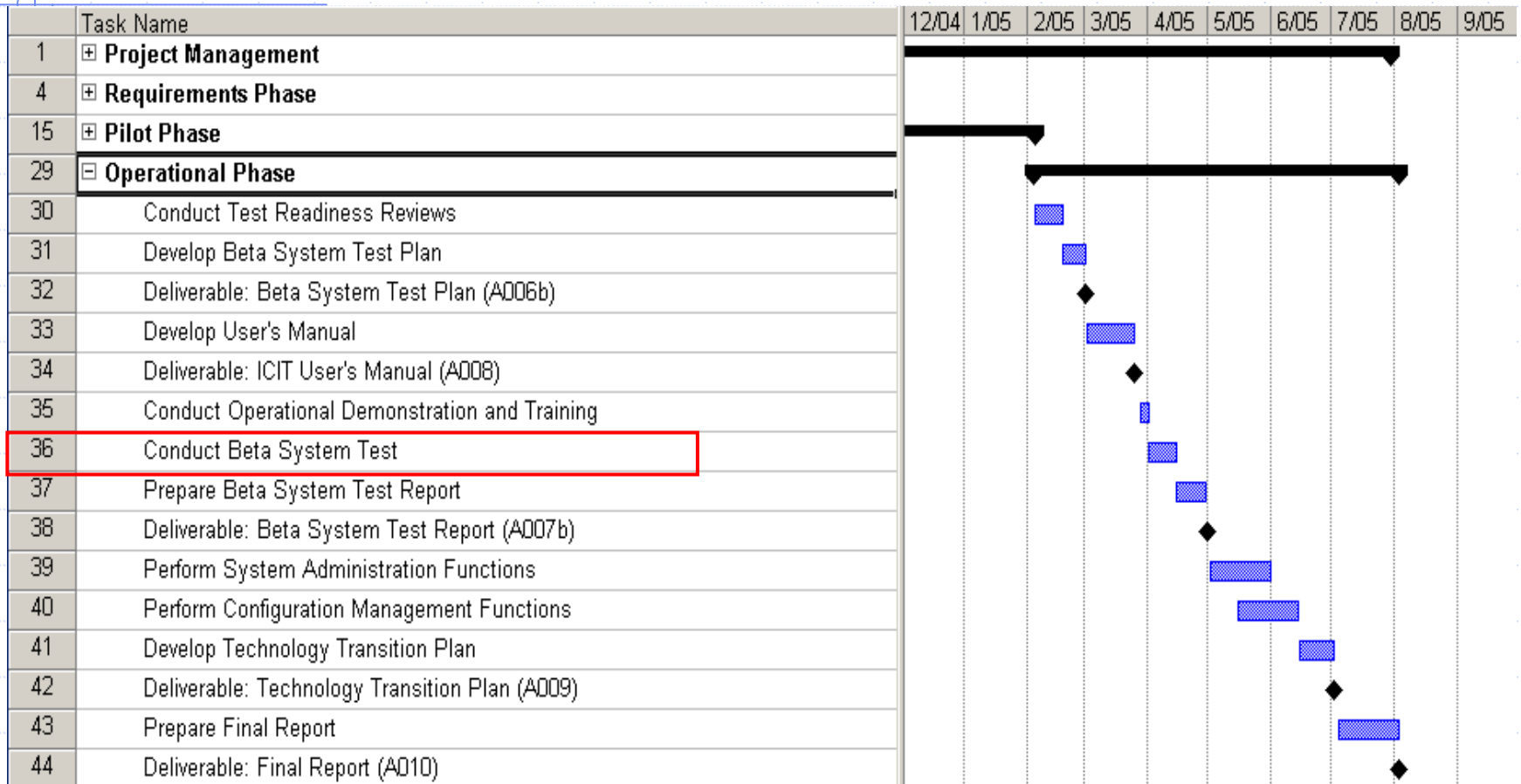
Requirements Phase



Pilot Phase



Operational Phase



Deliverables

Data Deliverables

CDRL A001	Software Requirements Specification (SRS)
CDRL A002	Project Plan
CDRL A003	Monthly Status Report (MSR)
CDRL A004	Software Design Description (SDD)
CDRL A005	Meeting Support and Informal Technical Information
CDRL A006	Software Test Plan
CDRL A007	Software Test Report
CDRL A008	Software Users Manual
CDRL A009	Software Transition Plan
CDRL A010	Scientific and Technical Reports (Final Report)

Computer Software and Databases

ICIT computer software and the database applications on electronic media with installation utility software.

ICIT Schema

Tier 1: Client Browser



Outputs

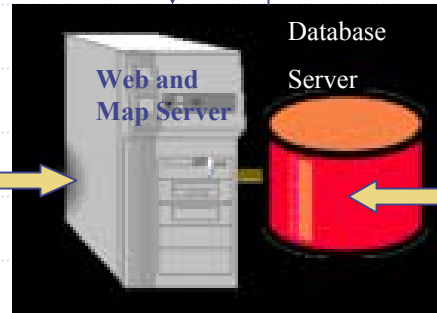
- Maps, Reports, Tables compatible with: CATS, HAZUS, EPA Situation Room, COBRA

http

Tier 2: Web/Map Server

ICIT Business Logic

- RiverSpill
- Internet Map Server



Tier 3: Database Server

- National Hydrography Dataset
- GIS layers: sensors, dams, reservoirs, locks, transportation, topography, population, intakes

External Inputs

Field Sensors

Field Reports

USGS Real-Time Gages

Hospital Admissions