

NMMSS Upgrade Status

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Savannah River Site
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Project Background

- Memorandum of Agreement - August 2003
- Four year development project beginning in FY2004
- Steady state support and Maintenance

MOA

- SO-62 (now HS-1.22) is the owner of the project and will provide funding
- DOE-SR will provide contractor (WSRC) oversight and accept work products
- WSRC will follow the DOE Systems Engineering Methodology (SEM) for project execution
- NAC will provide detailed specifications for all significant outputs and reports generated by the FoxPro application including frequency of use and volume of distribution.
- NAC will make available personnel on a regular basis to provide input to the NMMSS Upgrade Project.

Department of Energy

Peter Dessaulles, DOE HS 1.22
Federal Project Manager

Scott Boeke
Giles Bailey
DOE-SR

Tom Williams. DOE-SR
Responsible Operations Office
Division Director, SES&T

Washington Savannah River Company
M&O Contract DE-AC09-96-SR-185000



SRS NMMSS Upgrade Team

Program Manager

Jerry O'Leary

Gordon Meek, Project Advisor

Brian Anderson, Project Controls

Design Authority Function

John Robichaux - WSRC
Marvin Moore - WSRC
Mitch Hembree - NAC
Sam Brown - NAC

Cognizant Quality Function

Tim Tate, WSRC Quality Services

Design Agency Function

John Thomas, IT Manager

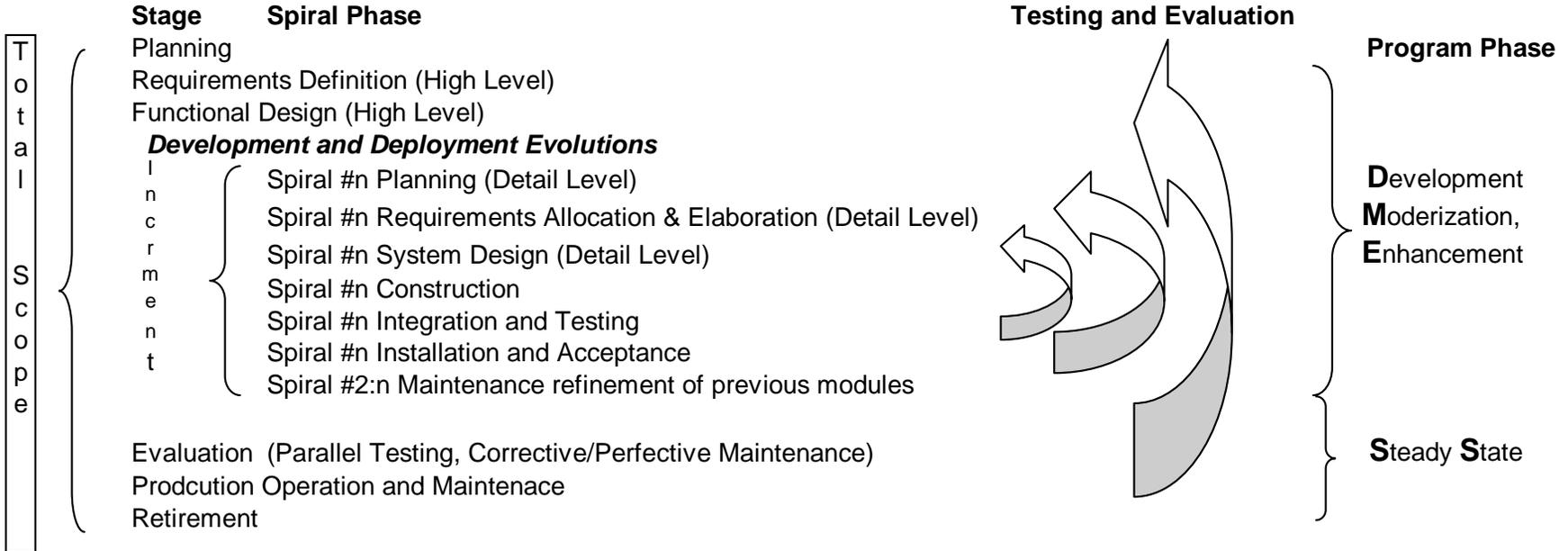
Dan Farmer
Rick Edwards
Bob Alger
Norma Camp
Brent Krenz
Len Bowers
Harry Kight



Spiral Development Method

- Spiral development repeats the planning, requirements, and functional design stages in a succession of cycles in which the project's objectives are clarified, alternatives are defined, risks and constraints are identified, and a prototype is constructed.
- The prototype is evaluated and the next cycle is planned. The project objectives, alternatives, constraints, and risks are refined based on this evaluation; then, an improved prototype is constructed.
- This process of refinement is repeated as many times as necessary to provide an incrementally firm foundation on which to proceed with the next spiral of the project until the entire scope is completed.

Spiral Method



Application of the Spiral Model to the NMMSS Upgrade will involve 7 iterations of development and deployment :

Description

Spiral Evolutions:

- Spiral #1 Authority Reference
- Spiral #2 Transaction processing
- Spiral #3 Inventory
- Spiral #4 Material Balance
- Spiral #5 IAEA Reporting
- Spiral #6 Reports
- Spiral #7 SAMS

NMMSS Upgrade

DEVELOPMENT SPIRALS

2007
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

2008
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

2009
Oct Nov Dec



Parallel Testing at Operational Site (NAC)



Corrective Maintenance
Add Reports as needed
Technical support



Current Status

Corrective maintenance for anomalies during

- parallel testing,
- parallel operations,
- cut-over and full operation

Adaptive and perfective maintenance

Support for ad hoc information requests and additional report development and generation

Technical support for NMMSS operations

Objective : A robust, flexible database application that can support the emergent needs of the DOE and NRC