



U.S. DEPARTMENT OF
ENERGY

*Office of Environmental Management
Consolidated Business Center*

Office of Cost Estimating & Analysis
Overview

April, 2010



EM *Environmental Management*

safety ❖ performance ❖ cleanup ❖ closure

Rev. 3 / April 2010

www.em.doe.gov

EM Mission

“Complete the safe cleanup of the environmental legacy brought about from five decades of nuclear weapons development, production, and Government-sponsored nuclear energy research.”



- Largest environmental cleanup effort in the world, originally involving two million acres at 108 sites in 35 states
- Safely performing work
 - In challenging environments
 - Involving some of the most dangerous materials known to man
 - Solving highly complex technical problems with first-of-a-kind technologies
- Operating in the world's most complex regulatory environment
- Supporting other continuing DOE missions and stakeholder partnerships



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EM Corporate Cost Estimation Strategy

- Approved for Implementation on 5/01/08
 - Defines approach to enable EM to systematically focus on development and maintenance of a strong corporate cost estimating capability
 - Establishes high priority for cost estimating to effectively manage and reduce the life-cycle costs of EM's programs and/or projects.
 - EM-60 has responsibility for developing and implementing EM's Cost Estimating & Analysis (CE&A) Program
 - EMCBC provides annual resources necessary to operate EM's Office of Cost Estimating & Analysis



EM CE&A Program Mission

- Establish standards, policy, and procedures to ensure EM Cost and schedule estimates are accurate, traceable, and reliable
- Lead the development and management of cost databases, methodologies, and tools needed by EM to improve and standardize its CE&A capabilities
- Provide Independent Cost Estimating (ICE) and Independent Cost Analysis (ICA) capability to support EM acquisition and project management requirements
- Provide ICE & ICA support to EM management, EMAAB (EM Acquisition Advisory Board) activities, & EM budget formulation process



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EM CE&A Program Development

- EM Corporate Implantation Strategy uses a two-pronged approach
 - Establish internal CE&A capability within EM
 - Develop EM's Office of Cost Estimating & Analysis
 - EM Field Offices staff CE&A function
 - Develop Corporate CE&A Program
 - Develop EM-specific CE&A policies, procedures & standards
 - Develop & Maintain EM-specific CE&A tool-kit
 - Develop corporate CE&A training program
 - Revitalize EM Applied Cost Engineering Team (EM CE&A Community of Practice)
 - Coordination with DOE Office of Cost Analysis (CF-70)
 - Participate on Inter-Agency Cost Engineering Forums



EM CE&A Center Core Functions

- EM Acquisition (EM-81/82 & EMCBC Office of Procurement)
 - Perform Life-Cycle Cost Analyses
 - Prepare Independent Government Cost Estimates (IGCE)
 - Develop Contract-specific CE&A requirements
 - Perform cost reasonableness reviews of contractor-submitted cost proposals (IR&V)
 - Support SEBs
 - Contract Close-out ~ capture actual project costs and make available for EM CE&A Environmental Cost Analysis System (ECAS) and DOE's *i-Cost*
- Strategic Planning & Analysis (EM-4, EM-3.3, EM-62, & EM Field Offices)
 - Support FPDs & Serve on IPTs
 - Provide direction/oversight for contractor-developed cost estimates
 - Prepare Independent Cost Estimates (ICE)
 - Perform Independent Cost Analyses & Reviews
 - Support Risk Management Planning Activities
 - Establish Project-specific CE&A requirements (tailoring)
- Project Management Support (EM-10)
 - CE&A SMEs on Independent Project Review Teams
 - Provide ICE/ICR services
- Provide EM-wide CE&A Support Service Contractors
 - Independent Cost Estimates & Independent Cost Estimate Reviews

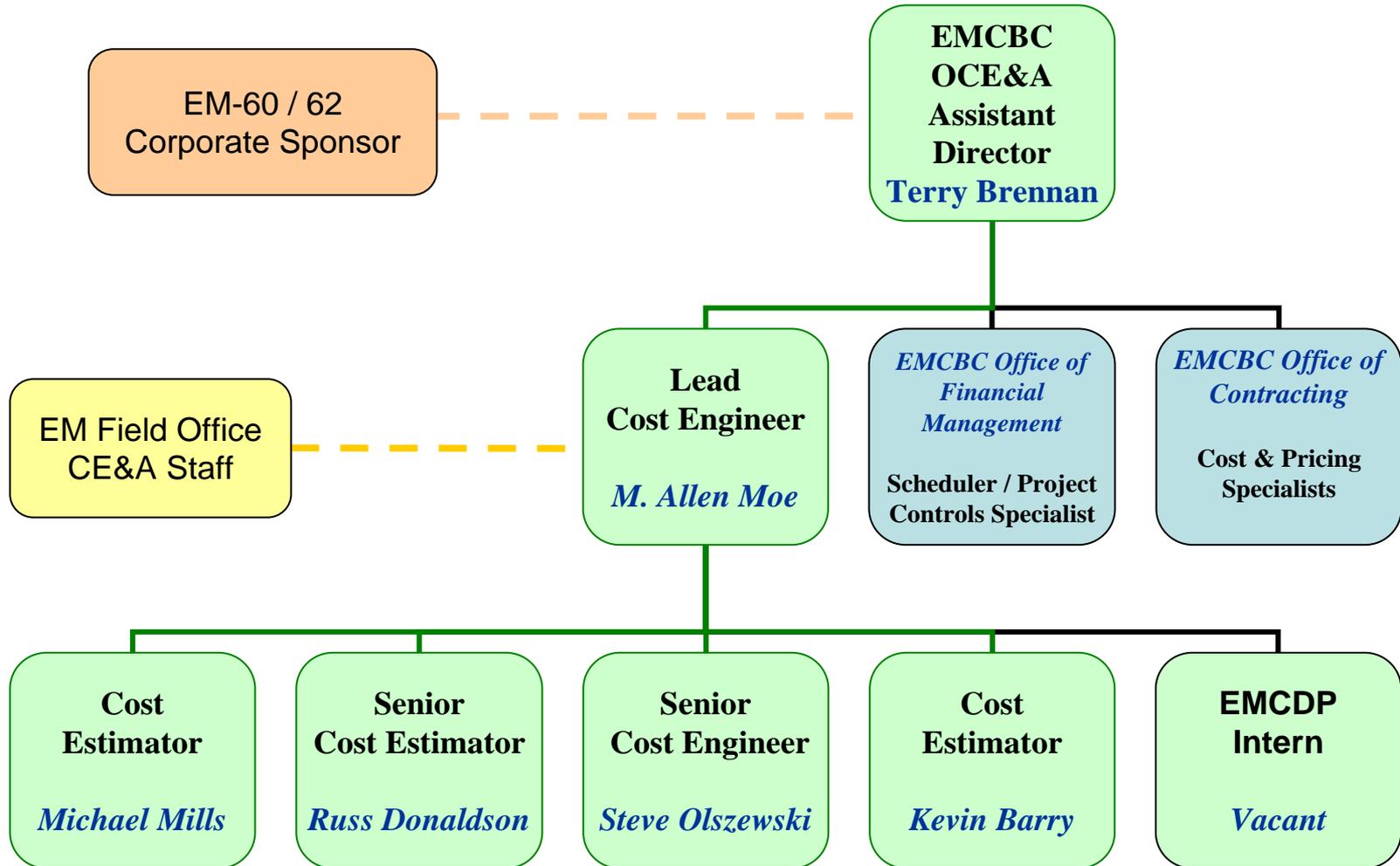


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EM CE&A Center Staffing



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EM Office of Cost Estimating & Analysis Staff

Terry Brennan, Assistant Director, EMCBC OCE&A

- 25-years+ Cost Engineering and project management experience with major civil works, military, and environmental clean-up projects. 5-years+ commercial construction projects (CE and PM)
- 15- years + Cost Estimating and Value Management Program Development & Management
- Veteran USN Nuclear Submarine Service

Allen Moe, Lead Cost Engineer

- B.S. Civil Engineering, M.S. Engineering Management, P.E., Business Mgt.
- 13-years+Roadway, rail and infrastructure design, const. and program management.
- 10-years+Water/Sewer/Storm system and plant design, const. and program mgt.

Steve Olszewski, Senior Cost Engineer

- B.S. Industrial Engineering, Minor in Business Management
- 18-years+ Miller Brewing, Plant and CIP facilities and cost engineer
- Process design, const. mgt. and estimating, QA/QC,LCC,

Russ Donaldson, Senior Cost Engineer

- B.S. Construction Management
- 8-years at GM, Capital program cost estimating
- 10-years as senior estimator for Demolition Contractor

Kevin Barry, Cost Estimator

- B.S. Operations Management, Member AACE
- Responsible for est., trending and cost control for projects ranging (\$50K-to \$300M)
- Developed Construction Factors Location Manual, Published by Richardson Eng.Serv.

Michael Mills, Cost Estimator

- B.S. Finance & Economics, M.B.A, Member of SCEA
- Experience in Program and LCC on USAF C-17, C-5, F-15 programs.
- Various R.O.R. and scenario estimating projects



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EM Office of Cost Estimating & Analysis Staff Assignments

SITE/LOCATION	Primary POC	Phone No.	Secondary POC	Phone No.
Mound / OU-1 / Miamisburg, OH	Allen Moe	513-246-0230	Steve Olszewski	513-246-0231
SPRU (Separations Process Res. Ctr.), NY	Michael Mills	513-246-1372	Kevin Barry	513-246-1371
ITL (Inhalation Toxicology Lab), NM	Kevin Barry	513-246-1371		
ETEC (Energy Tech. Eng. Center), CA	Michael Mills	513-246-1372	Kevin Barry	513-246-1371
SLAC (Stanford Linear Accelerator Ctr.), CA	Kevin Barry	513-246-1371	Michael Mills	513-246-1372
Moab, UT	Allen Moe	513-246-0230	Mike Mills	513-246-1372
WVDP (West Valley Demo. Project), NY	Russ Donaldson	513-246-1373	Kevin Barry	513-246-1371
BNL (Brookhaven Nat. Lab), NY	Russ Donaldson	513-246-1373	Kevin Barry	513-246-1371
ANL (Argonne Nat. Lab), IL	Russ Donaldson	513-246-1373	Kevin Barry	513-246-1371
GE Vallecitos, CA	Allen Moe	513-246-0230	Mike Mills	513-246-1372
SEFOR (SW Experimental Fast Oxide Reactor), MO	Michael Mills	513-246-1372	Kevin Barry	513-246-1371
LBNL (Lawrence Berkeley Nat. Lab), CA	Michael Mills	513-246-1372	Kevin Barry	513-246-1371
LANL (Los Alamos Nat. Lab), NM	Michael Mills	513-246-1372	Kevin Barry	513-246-1371
NSO (Nevada Site Office), NV	Steve Olszewski	513-246-0231	Michael Mills	513-246-1372
CBFO (Carlsbad Field Office), NM	Kevin Barry	513-246-1371	Michael Mills	513-246-1372
ORP (Office of River Protection), WA	Steve Olszewski	513-246-0231	Michael Mills	513-246-1372
OR (Oak Ridge Operations Office), TN	Russ Donaldson	513-246-1373	Kevin Barry	513-246-1371
PPPO (Portsmouth Paducah Project Office), KY	Steve Olszewski	513-246-0231	Kevin Barry	513-246-1371
RL (Richland Operations Office), WA	Michael Mills	513-246-1372	Steve Olszewski	513-246-0231
SR (Savannah River Operations Office), SC	Allen Moe	513-246-0230	Kevin Barry	513-246-1371
ID (Idaho National Lab), ID	Russ Donaldson	513-246-1373	Kevin Barry	513-246-1371
EM CE&A Integration with DOE CF-70 & other PSOs	Terry Brennan	513-246-0546	Allen Moe	513-246-0230
EMCBC OCE&A Workflow & Customer Svc. Feedback	Allen Moe	513-246-0230	Kevin Barry	513.246-1371
EM Environmental Cost Analysis System (ECAS)	Allen Moe	513-246-0230	Kevin Barry	513-246-1371
EM HQ Program Office) CE&A Support	Terry Brennan	513-246-0546	Allen Moe	513-246-0230

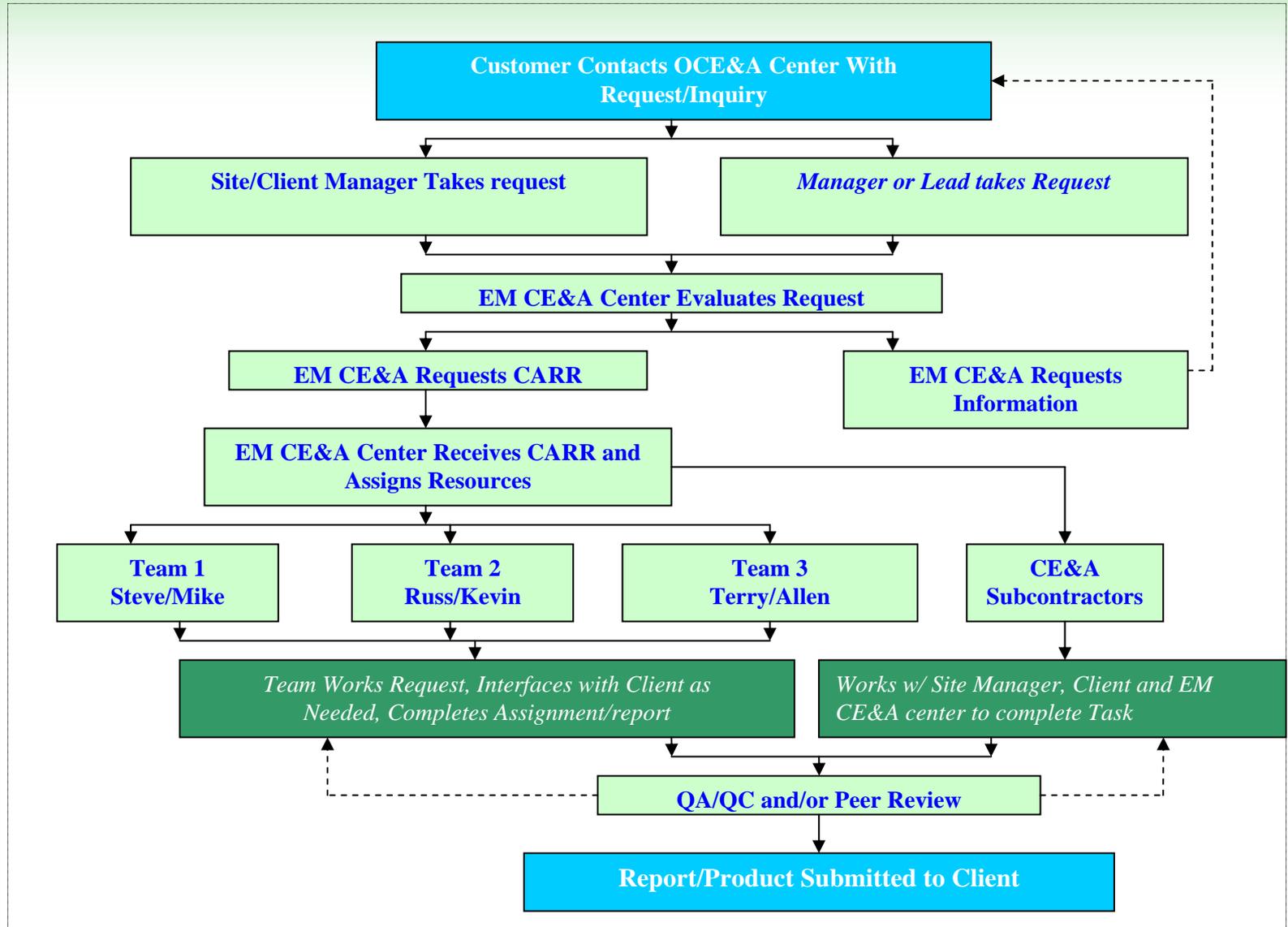


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EM OCE&A Work Flow

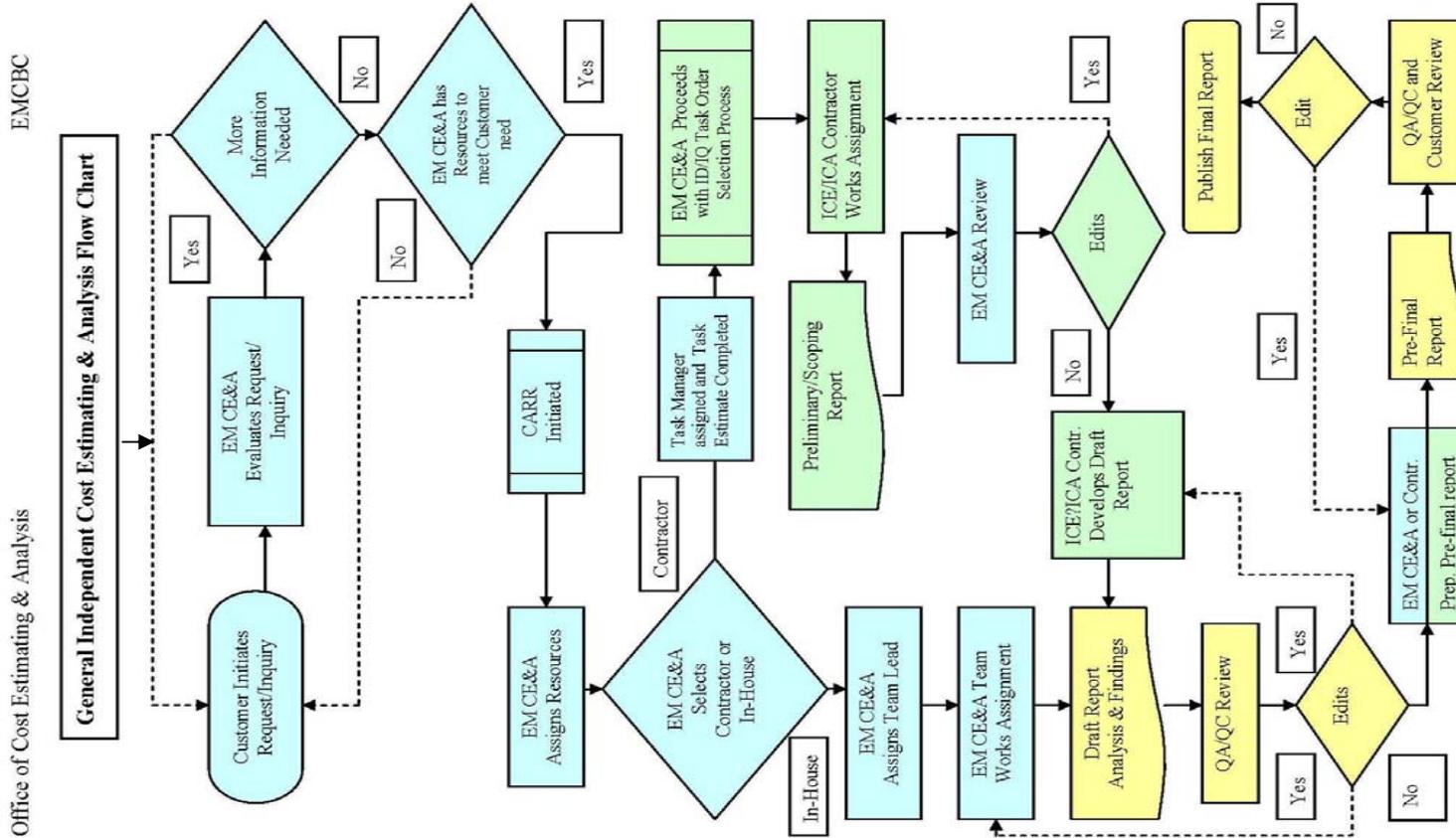


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General IGCE Development



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