

SCAMPI Lessons Learned

SEPG Conference March 2005

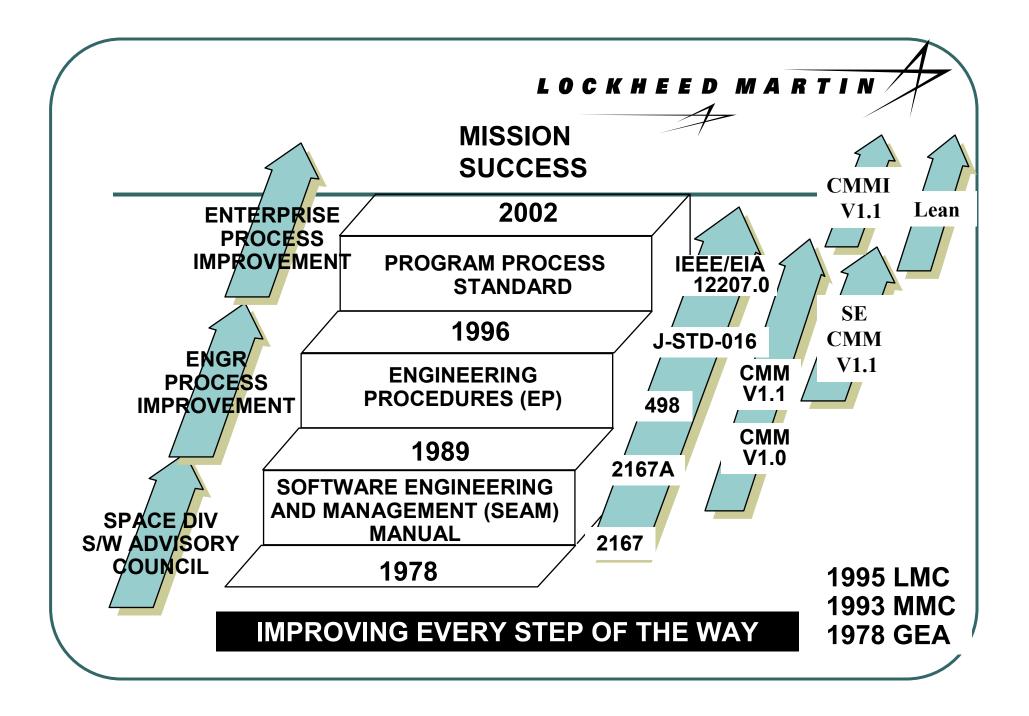
M. Lynn Penn Lockheed Martin IS&S Director Quality Systems & Process Management

Agenda

- LMC IS&S Introduction
- SCAMPI A Implementation
- Maintaining SCAMPI A Rating
- Contact Information

LMC IS&S

- Integrated Systems & Solutions (IS&S)
 - 15,000 employees
 - Four primary geographic regions (40+ sites)
 - Seven Lines of Business
 - Process Foundation
 - Management & Data Systems Recognized Standard Operating Process (Program Process Standard) across all programs
 - Mandated by senior management
 - Maintain the CMMI Maturity Level 5 through mergers and acquisitions



IS&S Process Methodology

- IS&S Program Process Standard (PPS)
 - Minimum Mandatory Set of Processes for all IS&S Programs
- Compliant currently to 9 Industry Standards
 - ISO 9001, CMMI, RUP, ISO/ IEC 12207...
 - Mapping documented on IS&S PAL
- Mandatory training every 3 years for EVERYONE at IS&S
- Introduce appraisers, registrars, auditors to ONE document

SCAMPI A Implementation

• The Goals of the SCAMPI A were to:

- Formally recognize the mature practices that were being used within the organization: for freely sharing results, methodology and experiences with other units and organizations.
- Determine the process maturity under the CMMI model.
- Identify the strengths, weaknesses, and potential improvement opportunities.

Effective use of SCAMPI A Method

Lead Appraiser

- Synergy and experience with organization type and business
- If investigating high maturity past experience on a high maturity appraisal
- Experienced Team
- Use of mini teams to expedite reviews
 - Additional Team training to gain mini team trust – is a factor

SCAMPI Team Understandings

- Team Training
 - Extra day to establish understandings and trust
 - Delegation to Mini Teams
- Common criteria for evaluation of PA's
 - Not consistent on Objective Evidence filtering
 - What constitutes acceptable entries

Understanding Generics

- GP Leveling (common ground)
- Establish a clear definition of how to be handled – early during team training

• GP recommended distribution:

- GP $2.5 \rightarrow OT$
- GP $2.6 \rightarrow CM$
- GP $2.8 \rightarrow MA$
- GP $2.9 \rightarrow PPQA$
- GP 2.1, 2.10, 3.1, $3.2 \rightarrow OPF/OPD$
- GP 2.2, 2.3, 2.4, 2.7, 2.8, 3.1 \rightarrow stay w/ PA

Maintaining SCAMPI A Rating

- Maintenance Challenge
 - Through Mergers and Acquisitions
 - Through Prime/ Sub relationships (with multiple ratings involved)
 - Through Program Start Ups
 - Through IPT and non IPT relationships
- Solution Effective use of SCAMPI Bs and SCAMPI Cs

SCAMPI B&C Deployment

- Total of XXX programs
 - \$\$\$\$ and above
 - Requiring SCAMPI B
 - \$\$\$ \$\$\$\$
 - 50% require SCAMPI B
 - 50% require SCAMPI C
- Growing at 10 programs per year
 - Year of award require SCAMPI C
 - Next year require SCAMPI B
- Maintenance via SCAMPI C (SCAMPI B only if C indicates a need – no percentage given since limited historical metrics available)

Benchmark Results

- Results tabulated to give a picture of <Program> compliance
 - Weaknesses Noted / Recommendations
 - Plot of percent compliance for program related Process Areas
 - Due Date for Action Plan if required
- Based on Compliance Program is assigned color
 - Colors will be represented in MOR Chart
 - Blue very low risk no actions
 - Green low risk possible actions
 - Yellow medium risk actions Action Plan Required
 - Red high risk actions Action Plan Required
 - Note: Color codes are rough indicators of risk of benchmark compliance and are <u>NOT</u> a formal CMMI rating.

Return on Investment

- Return on Investment:
 - SCAMPI B's are much cheaper to conduct
 - SCAMPI A = 80 hours to conduct (on site)
 - SCAMPI B is less intrusive for the programs
 - SCAMPI B = 24 hours to conduct (on site)
 - SCAMPI C's allow the company a quick way to identify weak programs requiring intensive followup.
 - SCAMPI C = 4 hours to conduct (on site)

Contact Information

Lynn Penn	(610) 354-1188
	mary.lynn.penn@lmco.com

Bob Weiser (610) 354-3365 clinton.r.weiser@Imco.com

Dennis Ring (512) 292-8090 dennis.a.ring@lmco.com

Bill Pohle

(610) 354-5704 bill.pohle@lmco.com