

# *Configuration Management in the FAA*



**Briefing to AOS-1  
3 September 1999**

# *Objectives*

- *To provide an overview of Configuration Management status in the Agency*

# Configuration Management

When properly applied, CM is used to help us:

- Manage change and assess impacts of proposed changes
- Provide a mechanism to know:

What we are supposed to build

What we are building

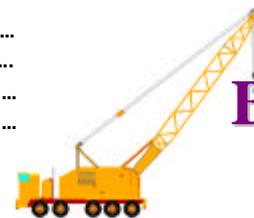
What we have built

- So that we can:

Support it

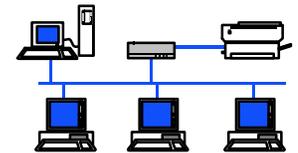


Modify it



Build more like it

or Interface to it



*A System Engineering discipline that must span the life-cycle to be effective*

# *Historical Perspective*

## *1980's - Centralized NAS Systems Engineering*

- *NAS Modernization Plan*
- *FAA Order 1800.8 - CM Policy- Roles & Responsibilities*
- *NAS 1000 Series - Technical Requirements*
- *FAA Order 1800.57 - established NAS CCB & CI's*



## *1990's - Acquisition Reform*

- *IPDS - established IPTs*
- *AMS - designed to “replace” all acquisition orders (e.g., 1800.8)*
- *NAS Architecture*
- *CM BPR - consistent with AMS & IPDS*

## *1997-99 - Unifying Agency CM Practices*

- *CM Steering Group to provide strategic direction*
- *In the interest of ARA and ATS*
- *National Policy, Process and Procedures established*

# *Core CM Implementation Groups*

## *CMSG*

a chartered, Agency-wide forum of senior managers dedicated to the establishment and promotion of an integrated FAA CM discipline that supports the FAA mission.

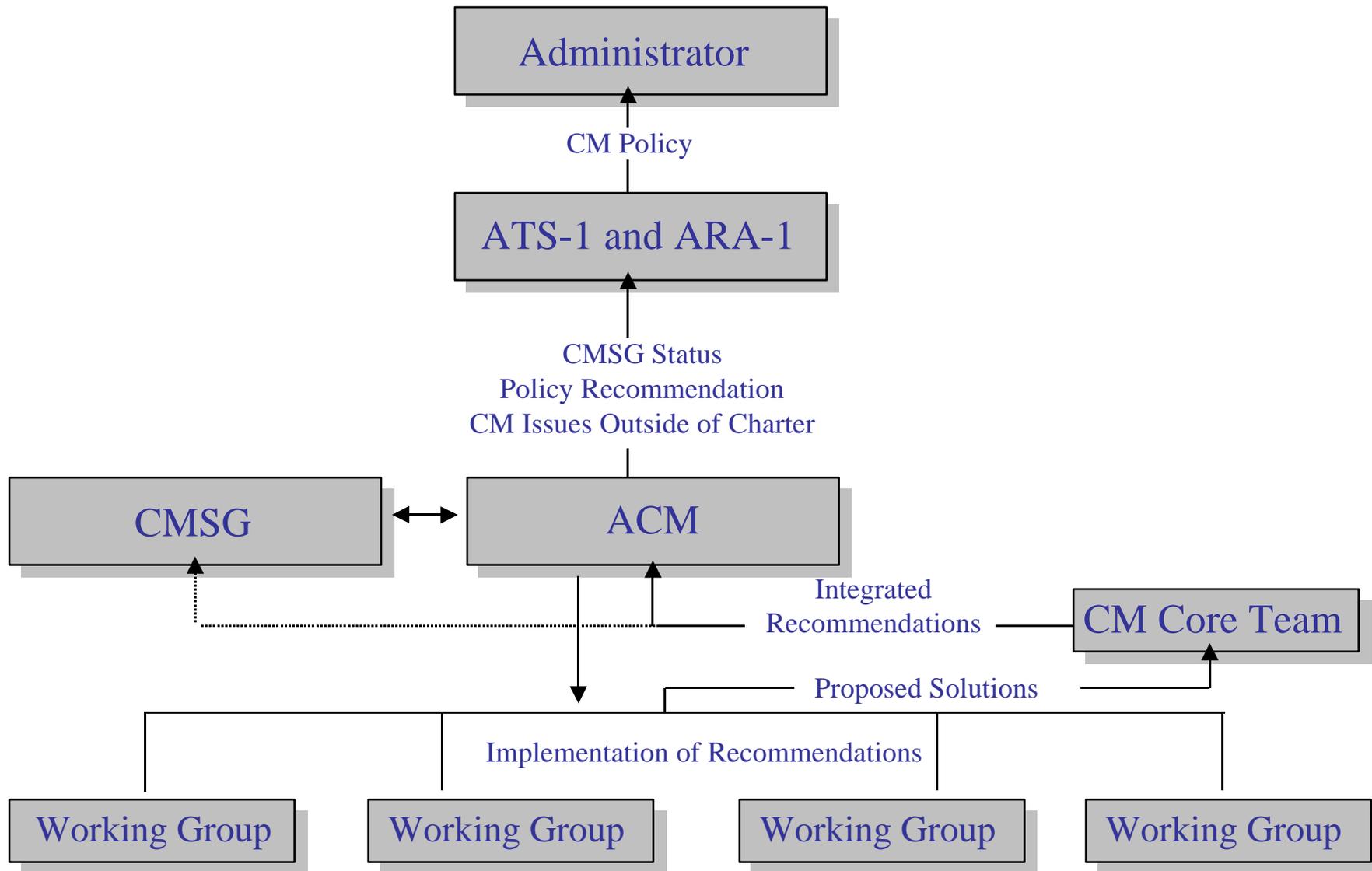
## *CM Core Team*

CM practitioners sponsored by the CMSG to help realize the strategic FAA CM Vision through Agency CM Program Planning.

## *CM Working Groups*

CM practitioners who provide subject matter expertise for the implementation of an enhanced Agency CM program.

# Organizational Structure



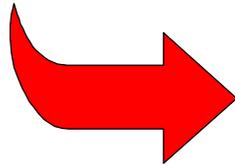
# *CMMSG Membership*

## Initial

R. Wein	ASD-200
R. Long	ANS-2
A. Douglas	ARX-1
A. Wong	ARN-1
T. Carrico	AIT-2
J. Loewenstein	AND-400
J. Hmara	AND-100
T. Hudson	AOS-2
N. Graham	AUA-600
D. Ford	AUA-300
M. Harrison	ASD-102
J. Heinen	ANI-7

## Current (8/25/99)

Common  
Agreement



Broader Role  
Needed

R. Wein	ACM-1
T. Gassert	AOP-1
J. Griffith	ATO-1
M. Hoover	ARU-1
J. Justiniano	ARX-2
R. Long	ANS-1
J. Nager	ANI-1
R. Long	AOS-1
A. Wong	ARN-1
N. Bowles	AML-1
C. Keegan	AOZ-1
R. Varette	AIR-500
J. Williams	ACE-470
D. Buckanin	ACT-300
D. Reimold (acting)	AN D-300
D. Ford	AND-500
N. Graham	AUA-600
M. Harrison	ASD-100
J. Wiley (acting)	AUA-300
J. Link	AND-400
J. Loewenstein	AND-700
N. Chapman (acting)	AUA-200
R. Polillo	AAR-600
A. Pyster	AIO-2
D. Stadler	AUA-400
J. Wiley	ACT-200



# *CM Core Team Membership*

<b>Rebecca T. King</b>	<b>ACM-20 (Lead)</b>
<b>Don Lombard</b>	<b>ANS-100</b>
<b>Bob Pfoff</b>	<b>AUA-240</b>
<b>Charles Gould</b>	<b>AND-400</b>
<b>Nancy Wigal</b>	<b>AOP-3</b>
<b>Rich Acosta</b>	<b>ARX-100</b>
<b>Jack Phillips</b>	<b>ARX-100</b>
<b>Mark Levy</b>	<b>ANI-5</b>
<b>Lou Hodac</b>	<b>AOS-530</b>
<b>Joyce Eaton</b>	<b>AOP-1000</b>



# *What do we need to make CM work?*

## **A Single, Agency CM Approach**

➔ **Integral to Operations, Maintenance and Acquisition**

*Single*

Organization Responsible for CM, Reporting to ATS and ARA

*Consistent*

and Balanced Application of Process and Policy

*Skilled*

Workforce and Technology to Effectively Perform CM

*Commitment*

from Associates and all levels of the organization

# Organization Progress

*Single*

**Organization Responsible for CM**

*Consistent*

and Balanced Policy & Process

*Skilled*

Workforce and Technology

*Commitment*

from Associates

*28 July 99 ASD-200 becomes ACM-1..*

*What does this mean?*

- *Single, independent authority working with those responsible for CM in acquisition and operations organizations*
- *Accountable to ATS and ARA*
- *Ensure the vertical and horizontal integration necessary for effective CM of the NAS in its entirety*

# ACM Goals

*Single*

**Organization Responsible for CM**

*Consistent*

and Balanced Policy & Process

*Skilled*

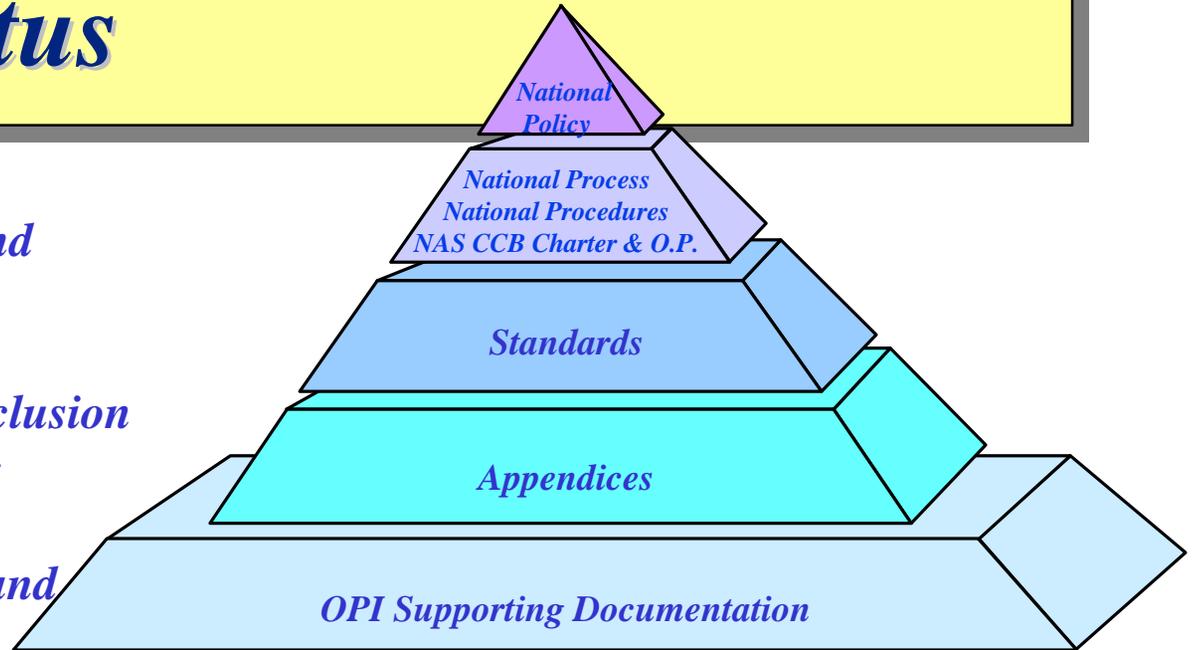
Workforce and Technology

*Commitment*

from Associates

- *Establish a CM system that meets the needs of the Agency*
- *Ensure consistency of CM implementation and compliance with CM process*
- *Ensure that CM is integral to FAA infrastructure and business practices*
- *Raise the visibility of CM to the ATS/ARA Level*

# Policy Status

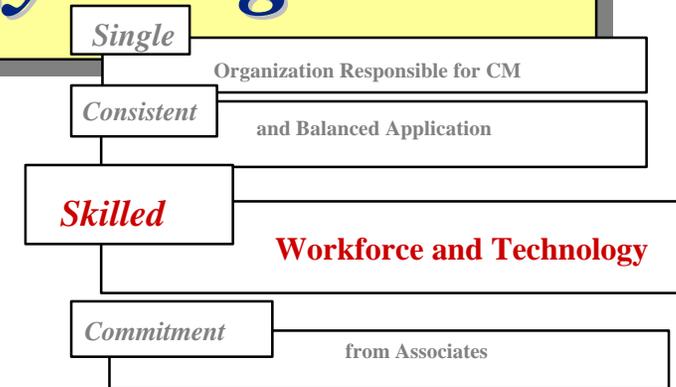


- Policy
  - *CM Policy Packages for AMS and Order will be presented to the Administrator at the same time*
  - *Policy approved by ASAG for inclusion in AMS on July 26 and is being coordinated within ASU*
  - *Order 1800 approved by ATS-1 and ARA-1 s*
  - *Publication of CM Policy in AMS/FAST and CM Order by September 22nd*
- Process *developed by cross functional Working group*
  - *Endorsed by CMCT & CMSG*
  - *Will be placed on FAST and in Order*
- Procedures *(50) to be drafted by 12/99*
  - *Will be placed on FAST and in Order*

# *NAS CCB*

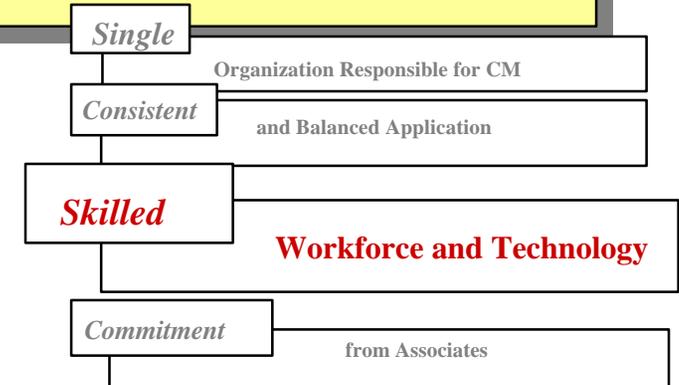
- *NAS CCB more responsive, aggressive*
- *Strengthening decision making*
- *Identifying hierarchy/ relationships*
- *Addressing systemic issues*
  - *CV-4400, TARDIS, etc.*
- *Technical Architecture under development - working interim strategy.*
- *CCB Charter, Operating Procedures updated*

# Workforce & Technology Progress



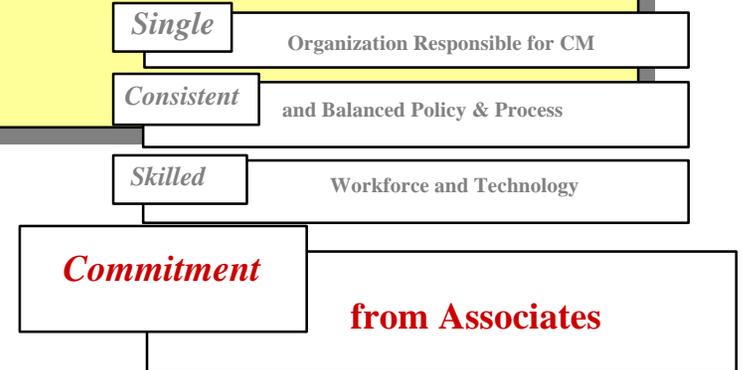
- *Focusing on the way we do CM*
- *Improving awareness, skills and general practice of CM*
  - *iCMM*
    - *All 12 IPTs appraised selected CM as a critical Process Area:*
      - *25% have reached Level 2 capability*
      - *50% have implemented the CM PA and are progressing towards Level 2 capability*
  - *Training*
    - *Increasing requests for training throughout the agency*
      - *CM Awareness - 172*
      - *Basic CM - 105*
      - *DOCCON - 35*
    - *Needs survey conducted*
    - *Training Plan being developed*

# Workforce & Technology Progress



- *Improving process with supporting technology*
  - *Defined high level information management needs*
  - *Established a web page to make information more accessible*
  - *Initiated procurement for automated tool pilot - working with ANS and AUA*
  - *Defining process and business rules for automation*
- *Tools and Technology to support standardization*
  - *Ensure traceability, integration and integrity of information*

# Commitment Progress



- *More organizations are “doing their own CM” - change processing and CCB administration*
  - *All regional CCBs and 9 of 12 Headquarters CCBs are chartered*
- *Process Improvements*
  - *NCP prescreening (e.g., Farm team process)*
  - *New Requirements Validation*
  - *Must Evaluation*
  - *Revised Case File/NCP & CCD forms*
- *ARA goals being met*
  - *Reduce NCP Processing time by 40%*
    - *Achieved 45%*
  - *Reduce Open CCD actions by 40%*
    - *Achieved 39.4% to date*
    - *Coordinating with AOP on Mod Tracking Program*

# *Commitment Progress*

*Single*

Organization Responsible for CM

*Consistent*

and Balanced Policy & Process

*Skilled*

Workforce and Technology

*Commitment*

**from Associates**

## *CM Program Plan*

- *Purpose*

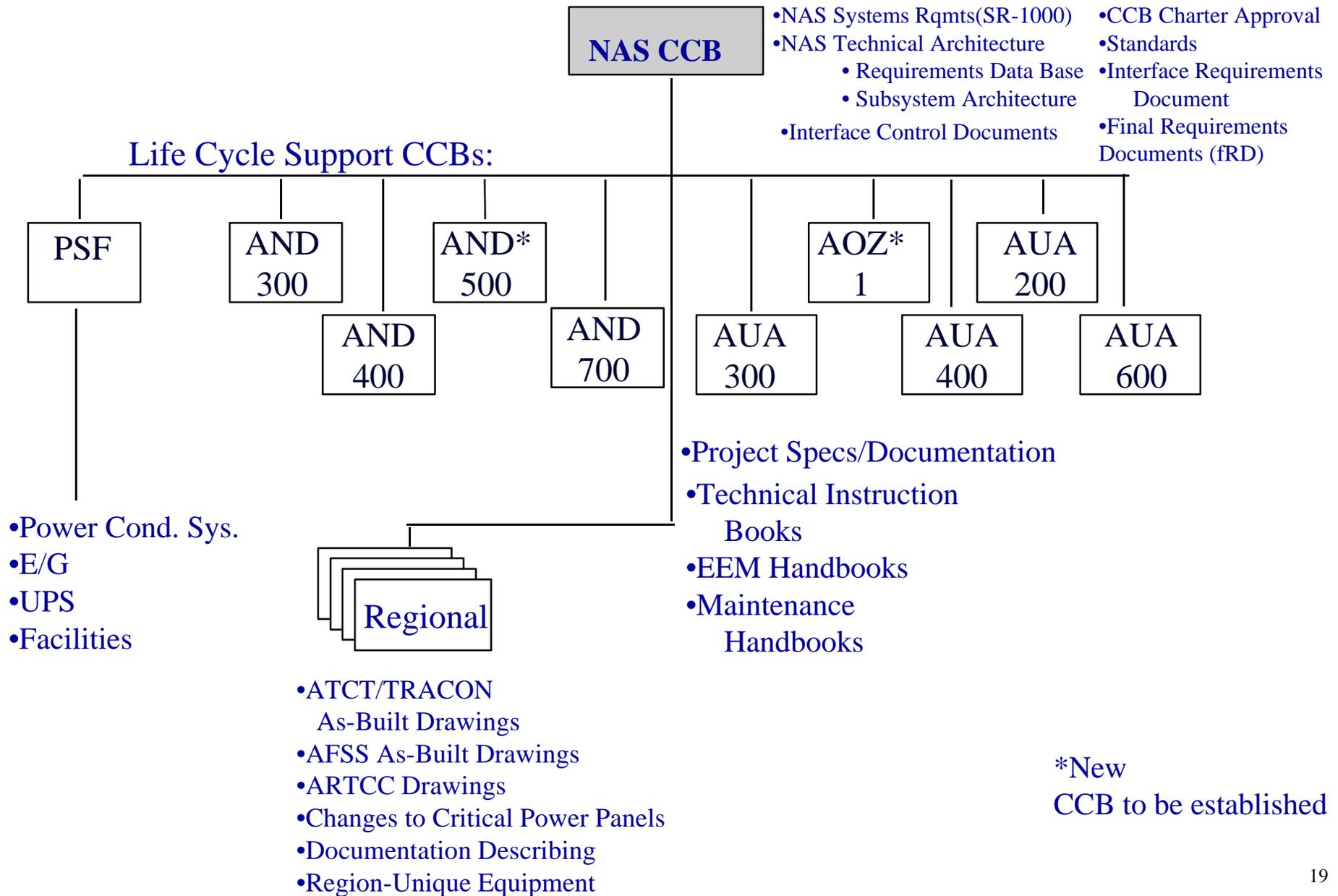
- *Outlines CM Process Improvement Initiatives*
  - *Prioritizes Tasks*
  - *Allows Impact Assessments*
  - *Aligns with Agency Vision and Goals*
- *Provide Timeframes and Needed Expertise*
- *Documents CMSG Agreement on Activities and Resources*

- *Status*

- *Discussed at CMSG meeting 8/31*
- *Comments due to ACM 9/3*
- *CMSG Agreement 10/1*
- *Obtain ATS/ARA approval 10/8*

# *Backups*

# Change Control Board (CCB) Structure



# Relationship of NAS CCB & JRC

