

Team Members:
 Facilitator: Lt Col Cox, SMSgt Wagus
 Team Leader: MSgt Penrod
 Team Members: 718 AMXS (See block 8)

18 MXG 718 Aircraft Jacket Files / Forms Transcribing Process

27 - 30 Oct 09
OODA – Observe. Orient. Decide. & Act

Approval Information/Signatures
 Col Dave Brown, 18 MXG/CC
 Maj Brian Moore, 718 AMXS/CC
 Reviewed and approved 30 Oct 09

1. Clarify & Validate the Problem O O D A

- Numerous Forms Writeups; Jacket File Inspection Failures
- AMUs do not bring forms to P&S in a timely fashion
- AMUs not returning missing forms or signed missing form letters
- Aircraft forms take too long to review and process for filing in the Jacket Files, contain numerous errors, and in some cases are missing forms altogether
- AMUs take from 5 to over 90 days to review and forward active aircraft forms to Plans and Scheduling (P&S) for filing in the aircraft Jacket Files - Huge backlogs are prevalent across the 5 AMUs
- Huge batches of forms being delivered to P&S for filing

Voice of the Customer (what P&S expects):

- Deliver latest set of forms on a weekly basis
- Needs to be the "right" set i.e. latest set, no gaps/no missing form sets
- Can separate forms by A, H, J,...
- Can deposit forms in accordion folder at a central drop-off/pick-up area

- Tools used: Voice of Customer, VSM Current State Map

4. Determine Root Cause O O D A

- Review process sometimes results in lost forms
- Review process is inconsistent across AMUs
- Different reviewers look for and find different types of discrepancies
- At least 19 inconsistencies in the process ("sometimes", "usually", "it depends")
- Some AMUs match forms against 380 computer screen "before" printing new set
- Checking/validating correctness against 21-101 and 00-20-1 requirements is highly inconsistent by crew chiefs, reviewers, and quality assurance
- Quality Assurance evaluation standard unclear (evaluator experience/preference)
- Training is unclear and apparently insufficient
- Some AMUs have the Crew Chief review, then Expediter review, then another Crew Chief review (3 sets of eyes versus 2 sets as in other AMUs)
- If there are errors any time in review process, forms re-cycle back to Crew Chief
- Some AMUs have log/track missing forms, other AMUs rely on P&S to track
- Inconsistent ways of getting forms to P&S, some deliver, some rely on P&S
- There is no set process, or checklist for transcribing forms -- Existing cover sheet has a list of items to check, but only used as a guide/not item-by-item cklst
- There are no "triggers" to keep the process moving along smoothly
- Lengthy review process and multiple reviewers with excessive work in process creates delays and creates opportunities for lost form sets
- Quote from a team member: "I think we have too many reviews in there."
- Tools used: 5-Whys and Brainstorming/Affinity

6. See Countermeasures Through O O D A

- Follow the Action Plan
- Establish and change policy
- Train personnel on procedures
- Use the tracker (forms closeout date, Section Chief review date, date dropped off at P&S pick-up point, and date P&S picked up the forms)
- Develop and use the checklist
- Have P&S acknowledge the pick-up
- Brief the new process to AMUs, i.e. Exp, Pro Sup, Supervision, etc.
- 30, 60, 90 and 6-month reviews of action plan
- Tools used: Visual Mgt and Standard Work

2. Break Down the Problem/Identify Performance Gaps O O D A

- Presently takes as long as 44 days once the forms are pulled and when they arrive at P&S -- Must be able to do this in 5 days
- Presently takes 4 to 5 people to perform the process -- Need to reduce this amount to the absolute minimum required by AFI 21-101 and T.O. 00-20-1
- Presently quality assurance pass rates are barely meeting standards -- Need to be able to meet quality standards consistently
- Tools used: KPI/Metrics, Performance Gap Analysis, Bottleneck Analysis

5. Develop Countermeasures O O D A

Action Plan:

- Build checklist for transcribing forms
 - Coordinate with QA, pro Super, Section Chief, etc.
 - Cover page includes the checklist
 - Validate the checklist to ensure it is consistent with Regs and TOs (21-101, 00-20-1)
 - Two signature blocks, possibly: transcriber and reviewer
- Build file system in the AMU for P&S
 - Coordinate pick-up location for P&S
- Create the training plan for the checklist
 - 797 Training block for qualification
 - Review FTD Forms Training Outline and adjust as needed
- Create tracking log
 - 33rd has a basic template
- Create a Mx Group Directive
 - Include a description of the process, the checklists, and have reviewed by AMU, Section Chief, QA, FTD, etc.
- Review the linkage between QA and FTD courses
- Tools used: A3, Action Plan, and Timeline/Schedule

7. Confirm Results & Process O O D A

- Monthly tracking of the following KPIs/measures:
 - Reduction in the number of missing forms letters (P&S tracks)
 - QA pass rate
 - Time to P&S
 - Time between forms closeout date and Section Chief review
 - Time between Section Chief review complete and pickup by P&S
- Tools used: KPIs/Metrics, Performance Mgt, Standard Work, and Audit

RESULTS	Current	Future	Delta	Improvement
Total # Steps	40	15	-25	62.5%
# People	5	2	-3	60.0%
# Form Sets	1	1	0	0.0%
Min Time (days)	4.0	0.4	-3.7	91.2%
Avg Time (days)	18.1	1.1	-17.0	94.0%
Max Time (days)	43.7	5.1	-38.5	88.2%

3. Set Improvement Target O O D A

- Presently takes as long as 44 days once the forms are pulled and when they arrive at P&S -- Target reduction is 39 days
- Presently takes 4 to 5 people to perform the process -- Target reduction is 2 to 3 people
- Presently quality assurance pass rates are barely meeting standards -- Target is consistent performance above the standard
- Tools used: Ideal and Future State Maps

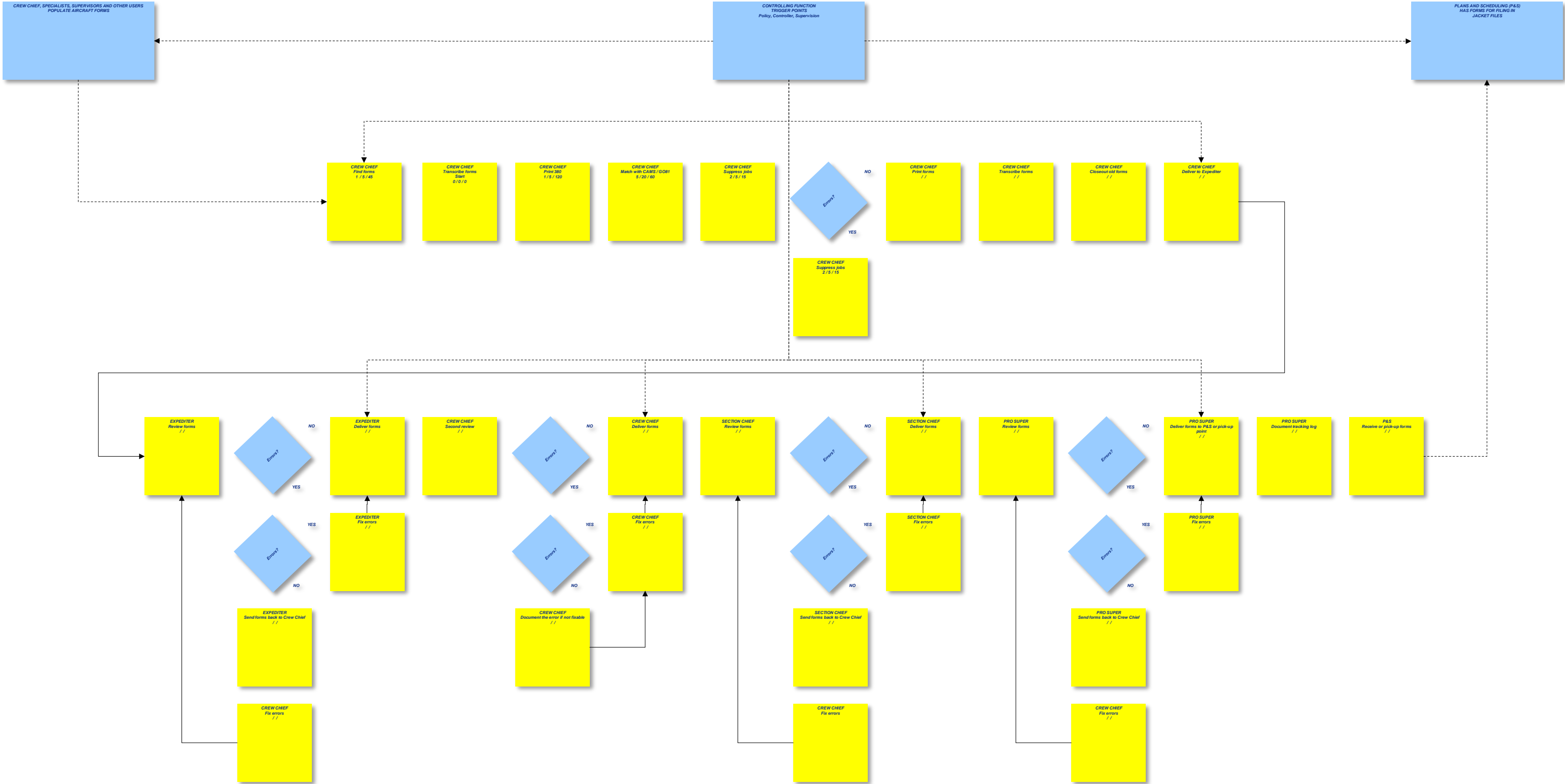
8. Standardize Successful Processes O O D A

- Maintenance Group directive (local supplement to AFI 21-101) (CAF/MAF)
- Local training plan
- Annual review of supplement, checklist, and training plan
- Tools used: Checkpoints/Standardization Table, AFI Policy Change with Checklist and Training, Annual Reviews

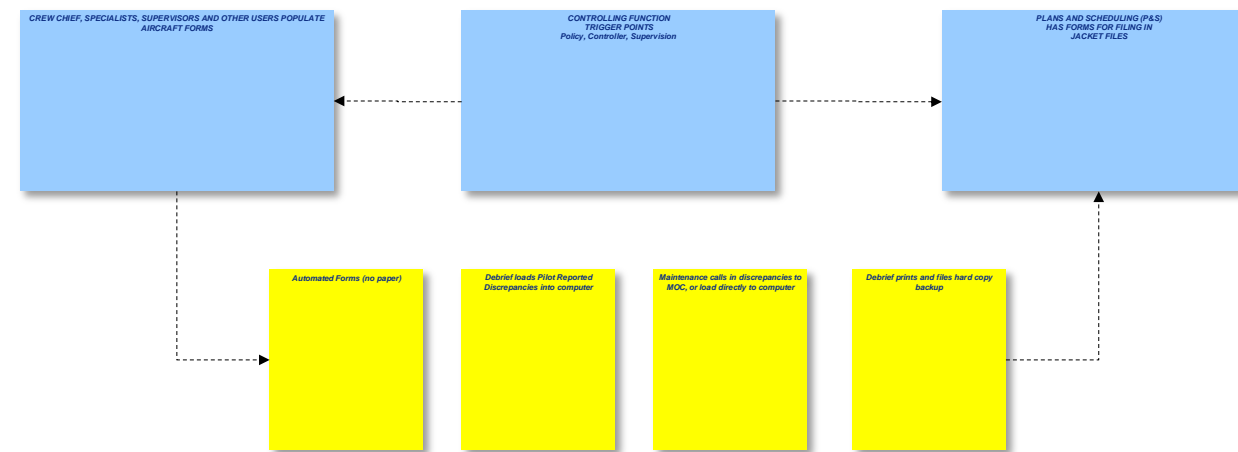
TEAM MEMBERS:

- Section Chief - MSgt Lawrence Penrod**
- Lead Tech - TSgt Zirah Daigle**
- DCC - SSgt Richard Narvaez**
- DCC - (S)Sgt Christopher Blanchette**
- ADCC - SrA Reid Beimling**
- P&S - MSgt Warren**

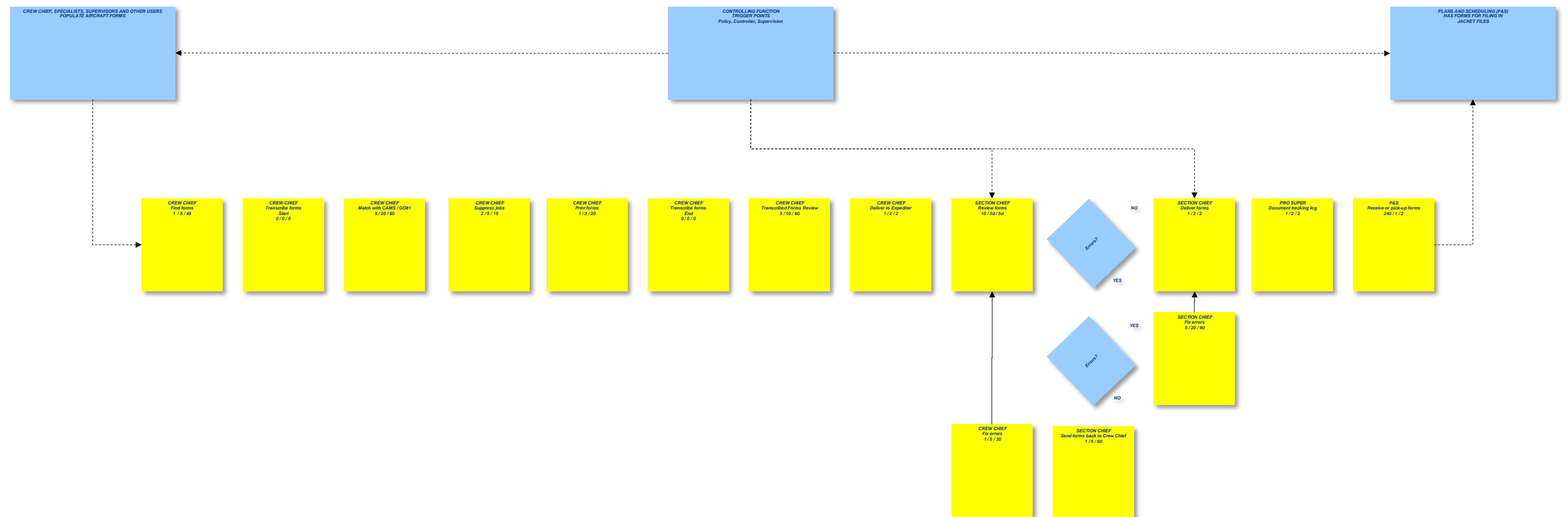
CURRENT STATE



IDEAL STATE



FUTURE STATE



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ACTION PLAN

Event Name:		718 Jacket Files						0% Complete	
Goal:		Reduce closed form processing time and decrease errors.							
Priority	Projects	RIE	Just-do-it	Project Description	POC	Start Date	ECD	Status	Comments
			X	Build checklists for transcribing forms	TSgt Daigle	3-Nov-09	1-Jan-10		Coordinate with QA, Pro Sup, Sect Chief etc.
			X	Validate checklist with AFI/TO	TSgt Daigle	3-Nov-09	1-Jan-10		Review CAF/MAF sups
			X	Build file system for acft forms	SrA Beimling	3-Nov-09	15-Dec-09		Coordinate with TSgt Robinson from P&S
			X	Coordinate acft form pick-up location and schedule	SrA Beimling	3-Nov-09	15-Dec-09		
	X			Create training plan for new checklists/procedures	MSgt Penrod	15-Dec-09	1-Feb-10		Review FTD forms training and adjust as needed
			X	Initiate 797 requirement for new process	MSgt Penrod	15-Dec-09	1-Feb-10		
			X	Create tracking log	MSgt Penrod	3-Nov-09	10-Nov-09		
	X			Write MXG Directive on new process	SrA Blanchette	3-Nov-09	1-Mar-10		Include annual checklist review by AMU, Section Chief, QA and FTD
				Review linkage between QA & FTD courses	Lt Col Cox	3-Nov-09	1-Dec-09		



TEAM MEMBERS

(from left to right)

DCC - SSgt Richard Narvaez

ADCC - SrA Reid Beimling

Lead Tech - TSgt Zirah Daigle

Section Chief - MSgt Lawrence Penrod

DCC - (S)Sgt Christopher Blanchette