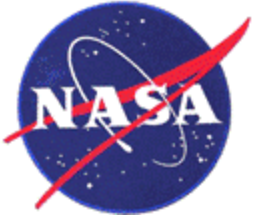


# ***NSSC Stat Sample Process***



**February 9 – 11, 2011**



# *Agenda*



- **Introductions**
- **Charter**
- **Schedule**
- **Event Activities**
- **Current States**
- **Ideal States**
- **Future States**
- **What Changed**
- **Get-To-Excellence (GTE) Plan**

# Charter Summary For: NSSC Stat Sample Process

## LeanIT#:

Problem Statement: : It takes approximately five months from the close of an accounting month to fully complete the statistical sampling and audit of domestic travel payments for that month. This results in a delay in reporting findings to the NSSC Financial Accounting Branch (FAB).

## Objectives / Deliverables:

1. Reduce number of days to complete monthly statistical sampling by 30% by August 15, 2011 with goal of applying improved process to April population.
2. Reduce number of NSSC audit technician errors discovered during internal quality review by 50% by August 15, 2011 with goal of applying improved process to April population.

## Project Scope Information:

Process Start: Accounting month-end close

Process End: Notification to traveler of audit findings

Value from the Customer's perspective: Providing data to FAB sooner would ultimately help achieve more timely reporting of audit findings to the centers. This reporting is provided in an effort to bring awareness to the centers of the volume and nature of errors discovered so they can manage errors. The overall goal is to reduce the number of preparer errors.

Dates: February 9 – 11, 2011

Champion:  
Cindy Epperson

Sponsor:  
Jim Caldwell

Team Leader:  
Leslie Anderson

OE Facilitator:  
Debbie Dale  
Donald St.Germain

Team Members:  
Jeri Allison  
Janel Benoit  
Kay Doane  
Beth Keith  
Becky Vaughn  
Lori Michel

# Activity Schedule

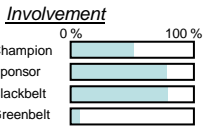


	Monday 23-Aug		Tuesday 24-Aug		Wednesday 25-Aug
8:00	Kick-Off - Intros		Review - Observations	Capture Enablers	Construct Action Plan - Determine Ownership - Build Outbrief
8:30	Event Training: Kaizen Process		As Is Time Value Analysis		
9:00		As Is Customer Value Determination			
9:30	Review Steps 1-3		As Is Value Analysis		
10:00	SIPOC & Walk the Flow - High Level				
10:30	Attributes of the current state		Ideal State		
11:00	Map the As-Is Value Stream - Data Collection		Waste Elimination - Cost and Cycle Time Reductions		
11:30					
12:00	Lunch		Lunch		
12:30	Map Value Stream in Detail	Capture Enablers	Map the to be Value Stream/Process		
1:00					
1:30			Trigger Sheets		
2:00					
2:30	Trigger Sheets		To Be Metrics		
3:00			Brainstorm- Categorize Enablers		
3:30	Attributes of the Future State				
4:00	Daily Team Lead Meeting - Sponsor		Daily Team Lead Meeting - Sponsor		
4:30					

# Path to Excellence

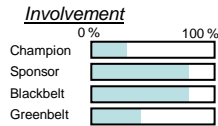
**Tools:**

- Business Case Template
- Pareto Charts
- Kano Analysis
- Value Stream Map
- Brainstorming



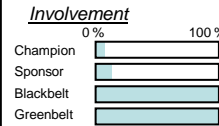
**Tools:**

- Roles & Charters
- IPO Diagrams
- Project Selection Form
- Project Plan / Checklist
  - Sponsor Meeting
  - Kick-off Meeting
  - Inform whole area
- Risk Management
- QFD



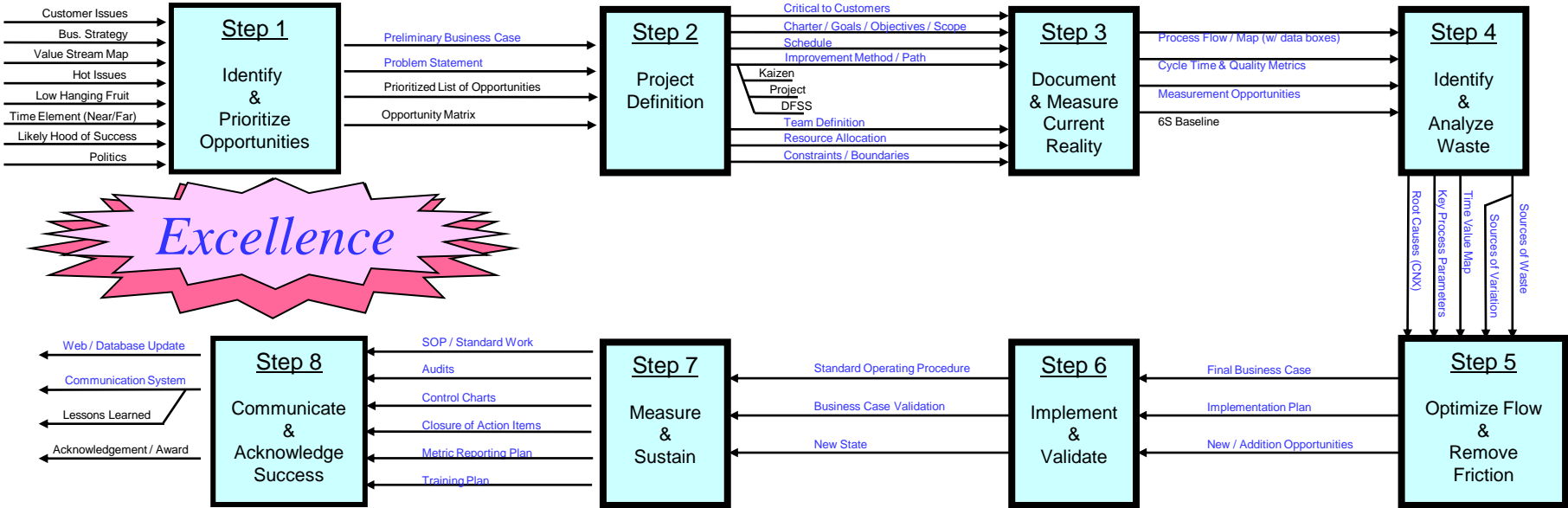
**Tools:**

- Process Mapping
- Time Value Mapping
- Physical Map / IPO
- Sigma Capability Measures
- Process Observation Form
- Survey
- Interview
- Time Observation Form
- 6S Evaluation



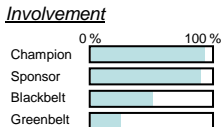
**Tools:**

- Sources Of Variation
- Simple Visual Tools (C&A, etc.)
- Time Value Map
- Simple & Multiple Regression
- Correlation Analysis
- Multi-Variate Analysis
- FMEA
- MSA
- DOE



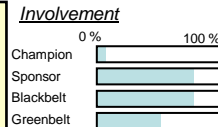
**Tools:**

- Web Page
- Suggestion Program
- Lessons Learned
- Migration of Best Practice
- Newsletters
- Story Boards
- Awards
- Incentives
- Giveaways



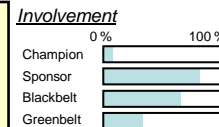
**Tools:**

- SOP / Policy / Standard Work
- Control Charts
- Communication Plan / Training
- Audits
- Report Out
- Rapid Data Collection
- Positive Reinforcement
- Change Management
- Newspaper



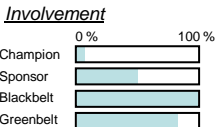
**Tools:**

- SOP Validation
- Finance Validation
- Hypothesis Test
- Design of Experiment (DOE)
- Conformation Runs
- Pilot



**Tools:**

- Mistake Proofing Techniques
- Out-of-Box Thinking
- Takt Time
- Flow & Pull Techniques
- To-Be Map
- Action Item Tracking
- Design of Experiments
- Step Down Chart
- Brainstorming / Try Storming
- FMEA (new process)



**Lean Processes That Operate At Six Sigma Capability**

# Path to Excellence, continued

## Event Steps

Step 1: Define The Boundaries  
Step 2: Define The Value  
Step 3: Define The Outcome  
Step 4: Walk The Product/Service Flow

Baseline Team

Step 5: Observe And Gather Data  
Step 6: Map The Value Stream

- Customer
- Product Flow
- Information Flow
- Other Data (Inventory, Takt, Etc.)

Current Conditions

Vision

Plans

Step 7: Analyze Current Conditions  
Step 8: Develop Ideal State

Step 9: Develop Future State Map  
Step 10: Develop Action Plans And Tracking

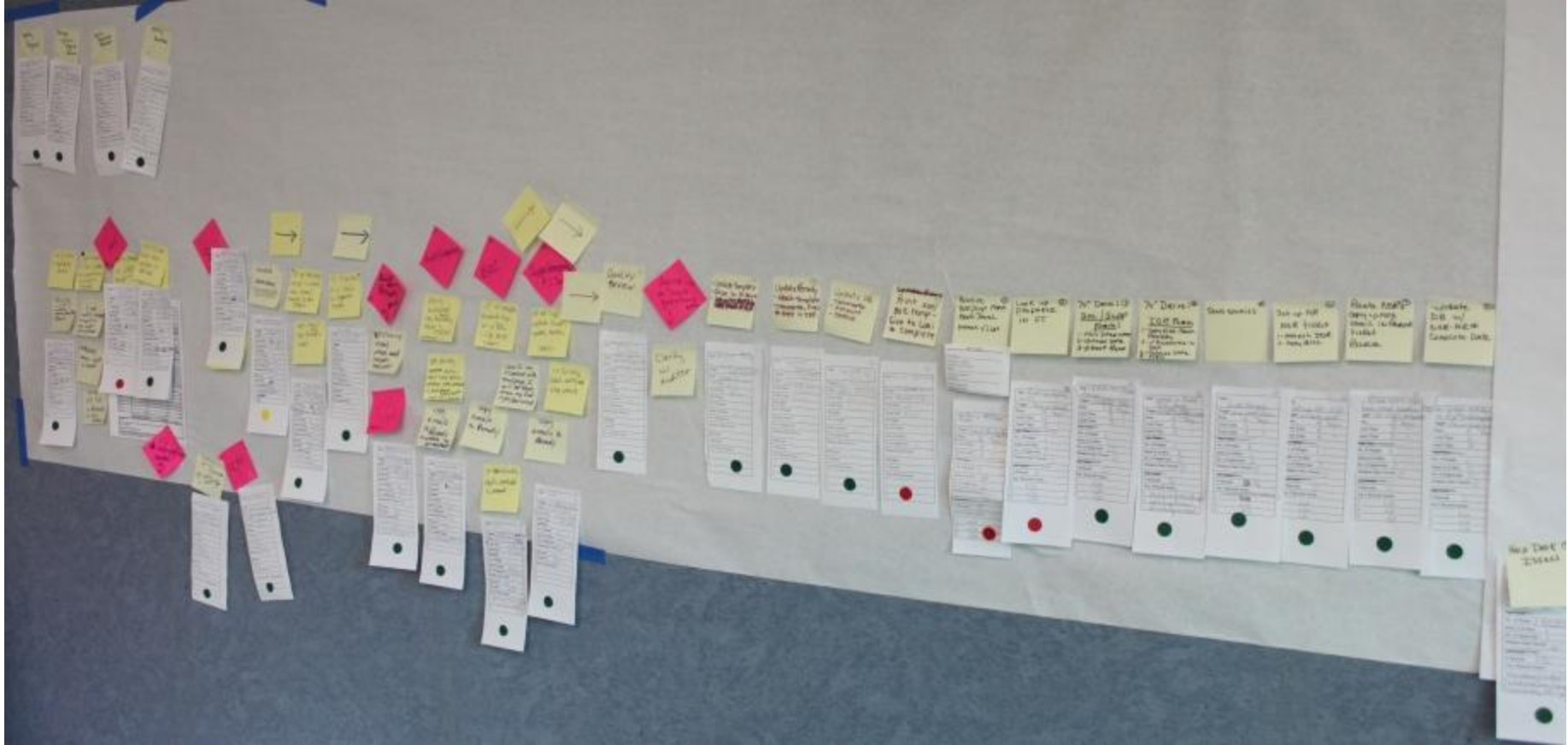
# ***Event Activities Completed***



- **Constructed Current State**
- **Current State/Analysis/Attributes**
  - **Trigger Sheets**
  - **Value?**
- **Constructed Ideal State**
  - **Garage**
- **Brainstormed Ideal State vs. Future – What prevents us from implementing the ideal states?**
- **Future State**
- **Identified Actions/Tasks/Enablers**
- **GTE Plan**

**Tools: Flow Charting, Brainstorming, Gap analysis, Trigger sheets. Value Analysis**

# Current State





# Current States - Analysis

## Trigger Sheets



Task:
Trigger:
Done:
Cycle Time:
Touch Time:
Takt Time:
No. of People:
Items in In-Box:
No. of Approvals:
Distance Item Travels:
ESH Issue:
% Rework:
Top 3 Rework Issues:
1.
2.
3.

# Current States - Analysis

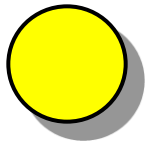
## Value

### *Value-Added Activities*



- Activities which change the form, fit or function of the product/service AND
- Activities which, when asked, the customer is willing to pay more if we did more of it AND
- Activities done right the first time

### *Non Value-Added Required - Needed Activities*



- Activities which may be necessary but the customer will not pay you to do
- Cannot be eliminated (due to non-robustness of process) based on current state of technology
- Required (regulatory, customer mandate, legal)

### *Non Value – Added Activities*



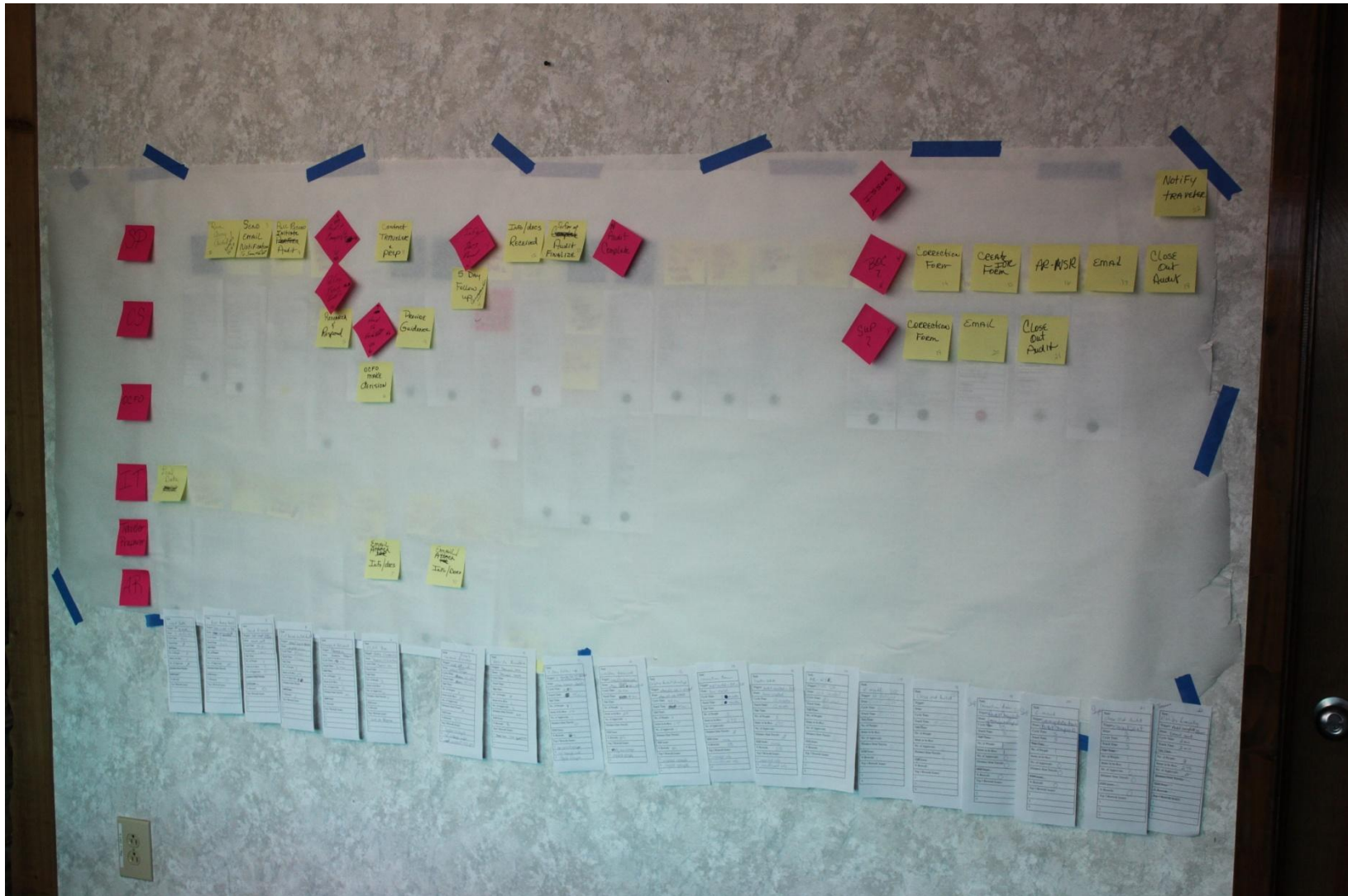
- Activities that consume resources but create no value in the eyes of the customer
- The customer is not willing to pay
- Pure waste (8 forms)

# Ideal States



## Why Not The Ideal State?

# Future State



# *What Changed?*



- **Eliminated manual steps to pull and forward data to IT**
- **Eliminated need to 'Scrub' email addresses**
- **Eliminated need to 'Scrub' for ETDY**
- **Eliminated verification of payment in SAP**
- **Eliminated 'Scrub' for second request & BOC-no receipts by incorporating into the audit step**
- **Eliminated need to have CS request receipts/information from VIPs**
- **Eliminating Quality Review by using best practices of the audit team and updating / mistake proofing the audit worksheet**

# What Changed?



	Current	Future	Improvement
<b>Steps</b>	<b>56</b>	<b>20</b>	62%
<b>Cycle Time</b>	<b>31125</b>	<b>30494</b>	8%
<b>Touch Time</b>	<b>1283</b>	<b>316</b>	75%
<b>FPY</b>	<b>1.2%</b>	<b>15.5%</b>	1274%

The majority of the Cycle Time and First Pass Yield:  
is within the 'requests for information  
and/or receipts from the traveler/preparer'

# Actions/Enablers



# Get to Excellence Plan and Follow-up



<u>Type</u>	<u>Event Description</u>	<u>Target Date</u>	<u>% Comp</u>	<u>Owner</u>	<u>LM21 Belt (BB/GB)</u>
JDI	Redesign / update Audit Worksheet	4/15/2001	0%	Beth Keith	
JDI	Standardize VIP correspondence	4/1//2011	0%	Leslie Anderson	
JDI	Develop detailed requirements for SST	3/15/2011	0%	Cindy / Jim	
JDI	Eliminate Quality Review	4/30/2011	0%	Leslie Anderson	
JDI	Update SDG	5/15/2011	0%	Janel Benoit	
JDI	Update the Stat Sampling Plan	4/15/2011	0%	Kay Doane	
JDI	Training Implementation	4/30/2011	0%	Beth Keith	
JDI	Update NSR to have IT pull/convert/load data	2/18/2011	0%	Jim Caldwell	
JDI	Create an incident to have email verification fixed	2/18/2011	0%	Jim Caldwell	
JDI					
JDI					



# Get To Excellence Activity: # 1 Redesign & Update Auditors' Worksheet

- JDI
- Kaizen
- Project
- VSM

Implementation Hard Easy	X	P	I
		K	C
	Small	Big Pay-off	

**Estimated Task Dates: 4/15/2011**

**Owner: Beth Keith**

**Potential Team Lead and Members:**

**Description/Problem Statement:**

**Currently auditors are using an audit checklist that needs to be enhanced to incorporate best practices**

**Objectives/Deliverables:**

**Have a single worksheet that includes as much mistake proofing and calculations as possible**

**Level of Effort: 60 hours**

**Benefits: Improve work quality  
Eliminate Quality Review**

# Get To Excellence Activity: # 2 Standardize VIP Correspondence

- JDI
- Kaizen
- Project
- VSM

Implementation Hard Easy	X P I
	K C
	Small Big Pay-off

**Estimated Task Dates: 4/1/2011**

**Owner: Leslie Anderson**

**Potential Team Lead and Members:**

**Kay Doane  
Beth Keith**

**Description/Problem Statement:**  
**Currently forwarding VIP receipt/information requests to CS**

- **Objectives/Deliverables:**
- **Eliminate the need to have CS request receipts/information from VIPs**

**Level of Effort: 4 hours**

**Benefits: Stream line the process and eliminate hand-offs**

# Get To Excellence Activity: # 3 Develop detailed requirements for SST

- JDI
- Kaizen
- Project
- VSM

Implementation Hard Easy	P	I
	K	C
	Small	Big
	Pay-off	

**Estimated Task Dates: 3/15/2011**

**Owner: Cindy Epperson, Jim Caldwell**

**Potential Team Lead and Members:**

**Beth  
Leslie  
Janel**

**Description/Problem Statement:**  
**Currently using numerous systems to complete this process that includes multiple manual steps**

**Objectives/Deliverables:**  
**Have one system for the entire process**

**Level of Effort: 60 hours**

**Benefits: Eliminates multiple data entry and manual steps**

# Get To Excellence Activity: # 4 Eliminate Quality Review

- JDI
- Kaizen
- Project
- VSM

Implementation Hard Easy	P	I
	K	C
	Small	Big
	Pay-off	

**Estimated Task Dates: 4/30/2011**

**Owner: Leslie Anderson**

**Potential Team Lead and Members:**

**Beth  
Kay  
Janel  
Auditors**

**Description/Problem Statement:**

**Currently performing 100% quality review for all audits with a finding**

**Objectives/Deliverables:**

**Improve processes to eliminate the need for quality review**

**Level of Effort: 40 hours**

**Benefits:**

**Stream lines process and eliminates another hand-off and approval**

# Get To Excellence Activity: # 5 Update SDG

- JDI
- Kaizen
- Project
- VSM

Implementation Hard Easy	P	I	X
	K	C	
	Small	Big	
	Pay-off		

**Estimated Task Dates: 5/15/2011**

**Owner: Janel Benoit**

**Potential Team Lead and Members:**

**Description/Problem Statement:**  
Update SDG to reflect changes

**Objectives/Deliverables:**

**Level of Effort: 10 hours**

**Benefits:**

# Get To Excellence Activity: # 6 Update Stat Sampling Plan

- JDI
- Kaizen
- Project
- VSM

Implementation Hard Easy	P	I	X
	K	C	
	Small	Big	
	Pay-off		

**Estimated Task Dates: 4/15/2011**

**Owner: Kay Doane**

**Description/Problem Statement:**  
**Update Stat Sampling Plan to reflect changes**

**Potential Team Lead and Members:**

**Objectives/Deliverables:**  
**To eliminate second notification to Traveler  
requesting receipts / information**

**Level of Effort: *1 hours***

**Benefits:**

# Get To Excellence Activity: # 7 Implement Training

- JDI
- Kaizen
- Project
- VSM

Implementation Hard Easy	P	I
	K	C
	Small	Big
	Pay-off	

**Estimated Task Dates: 4/30/2011**

**Owner: Beth Keith**

**Potential Team Lead and Members:**

**Description/Problem Statement:**  
**Train all involved on the new processes / changes**

**Objectives/Deliverables:**  
**Train all involved on the new processes / changes**

**Level of Effort: 16 hours**

**Benefits:**

# Get To Excellence Activity: # 8 Update NSR to have IT pull/convert/load data

- JDI
- Kaizen
- Project
- VSM

Implementation	Hard	X	P	I
	Easy		K	C
		Small	Big	
		Pay-off		

**Estimated Task Dates: 2/18/2011**

**Owner: Jim Caldwell**

**Potential Team Lead and Members:**

**Description/Problem Statement:**  
Currently travel is downloading and delivering data to IT for conversion.

**Objectives/Deliverables:**  
Remove non-value added activity and improve the turn-around time

**Level of Effort: 1 hours**

**Benefits:**  
Process improvement



# Get To Excellence Activity: # 9 Create an incident to have email verification fixed

- JDI
- Kaizen
- Project
- VSM

Implementation	Hard	X	P	I
	Easy		K	C
		Small	Big	
		Pay-off		

**Estimated Task Dates: 2/18/2011**

**Owner: Jim Caldwell**

**Potential Team Lead and Members:**

**Beth  
Leslie  
Lori**

**Description/Problem Statement:**  
**Valid Email addresses are not being provided**

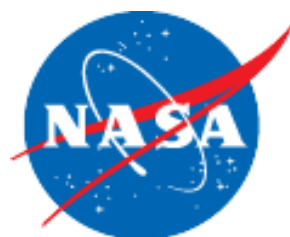
**Objectives/Deliverables:**  
**Eliminate manual process to detect and exclude bad email addresses, improper notifications and manually re-sending the email**

**Level of Effort: *1 hour***

**Benefits:**  
**Reduce manual steps**

# *Future Considerations*

- ***Consolidate all current systems into one Statistical Sampling Tool (SST)***
- ***Interface SST to FedTraveler.com to pull expense report data***



# Back up

# NSSC Reversals Process Kaizen - Summary



## The way we used to do it...

- Multiple manual steps
- Triplication of storage
- Excessive rework
- Time intensive
- Multiple processes by function

## The changes we made...

- Paper-less process
  - Checklist
  - Utilize Remedy
  - Screen shots gone
  - Printing and manual transportation to notifies and approvals
- Reduction in approvals and notification
- Created process awareness across functions
- Reduced multiple processes to 1 repeatable process
- Captured required information and one place and made available for "pull"
- Identified metrics and tracking items
- Reduced search and queue time
- Reduced multiple storage procedures
- NSR for all reversals – enabling metrics
- Single point of entry/input for internal and external requests



	Current	Future
1- Steps	12	
Cycle Time	1263	
Touch Time	123	
FPY	84%	
2- Steps	14	
Cycle Time	2383	
Touch Time	142	
FPY	79%	Single Procedure
3- Steps	21	11
Cycle Time	8042	869
Touch Time	166	113
FPY	93%	55%
4- Steps	28	
Cycle Time	239	
Touch Time	92	
FPY	86%	

## Team

Champion: Cindy Epperson

Sponsor: Jim Caldwell

Team Leader: Jim Caldwell

Team Members: Marsha Franklin, Gail Barnes, Demaris Cox

Theresa Morgerson, Jennifer Meyers Margaret Furey, Donald St. Germain,

Stephanie Neal, Paul Hebert, Karen Hill, Sharif Kharuf

OE Facilitators: Mason Gordon-BB/coach, Debbie Dale – GB, Beth Keith - GB

**RELEASED - Printed documents may be obsolete; validate prior to use.**