



## National Postal Forum

*Monday, May 4, 2026*

NATIONAL POSTAL FORUM | MAY 3-6, 2026 | PHOENIX, AZ

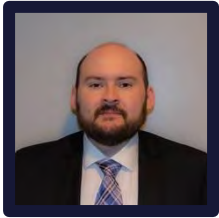
# Collaborative Design of Modern Network Facilities



**Eric Dolloff**  
Senior Director  
Plant & Process Modernization



Coin image (Courtesy of Valor Coins)



**Brad McCullough**  
Senior Director  
Technology Development & Applications



**George Schramm**  
Director  
Facilities Design & Construction



**Kevin Couch**  
Senior Director  
Maintenance Operations



**Erika Randel**  
Senior Director  
Logistics Network Transformation



# How We Partner to Create a Modern Network Facility

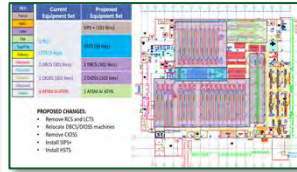


## Applied Engineering

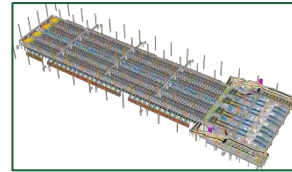
- Data driven engineered facility design, and project management
- Engineering Systems- collaborating to deploy best in class sorting technology
- Maintenance- designing maintenance work areas, process flows
- Facilities- design, build best in class processing plants
- Logistics, collaborative yard, dock, THS design ensuring best in class product flow

## Facilities

- Create a built environment that accommodates mail processing and sorting technology,
- Space to support administrative and maintenance functions,
- Parking and maneuvering areas that allow the safe and efficient movement of vehicles and pedestrians



PPM Concept PowerPoint Slide System (Microsoft Stock Images)



## Maintenance Operations

- Equipment set driven maintenance modernization concept
- Collaborate with Applied Engineering on workroom floor layouts, incorporating maintenance work cells into the design
- Partner with Facilities to ensure adequate stockroom, workshop, custodial & administrative space
- Collaborate with Engineering Systems on future state equipment set for spare parts inventory & training for technicians



Tool Bag, HQ Bldg & USPS Truck (Microsoft Stock Images)



## Engineering Systems

- Design and deploy processing equipment
- Collaborate with Applied Engineering on design optimal equipment sets
- Partner with Facilities to ensure buildings can support new equipment
- Collaborate with Maintenance Operations on long term equipment support

## Logistics

- Partner with Applied Engineering to translate facility design into an executable site plan
- Work with Facilities to ensure site, yard, docks & parking support transportation operations
- Aligns with Processing to support mail flow, staging & operating requirements
- Coordinate HQ, division & field logistics work in coordination from planning to activation and stabilization







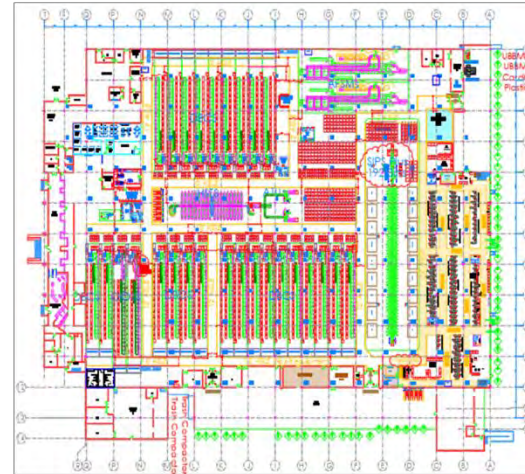
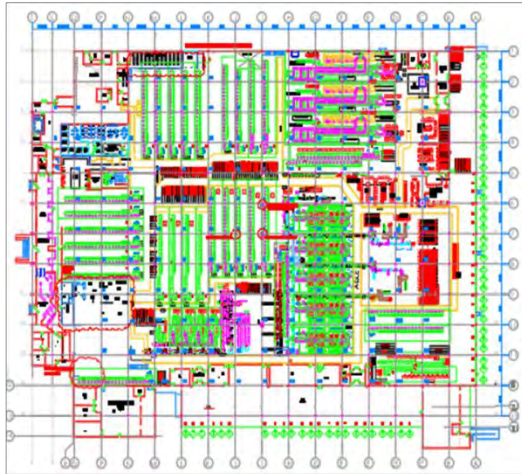
## Applied Engineering





*Eric Dolloff*

# Plant & Process Modernization (PPM) - Mission

Our mission is to design and activate best-in-class processing facilities that facilitate operational success through standardized design of operational spaces and product flows, optimal machine sets based on data analysis, development of standard work and training, and the fit out and modernization of equipment and facility from project concept through activation.

-  *Inconsistent machine layout*
-  *Complex flows*
-  *Redundant equipment*
-  *Outdated infrastructure*



-  *Standardized design*
-  *Streamlined, simple flows*
-  *Engineered machine set*
-  *Modernized workplace*

Layout Images (AutoDesk Vault)



## Standard Blocks

70 Equipment Blocks Published Q1 FY25 through Q1 FY26



All machine sets are designed to incorporate supporting spaces that are necessary for the operation to function at its designed effectiveness. These include ample spaces for flows, mail staging, and mail transport equipment staging.

Parallel Induction Linear Sorter Layout (AutoDesk Vault)

## Supporting Materials

424 Standard Work Instructions Published Q1 FY25 through Q1 FY26

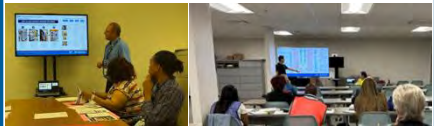


All operational spaces are supported with posted visual aids describing key operational roles and functions and detailed standard work instructions are made available to all employees.

Operations Standard Work Instruction and Visual Aids (Courtesy Calvin Zheng)

## Training

349 Training Classes Completed Q1 FY25 through Q1 FY26

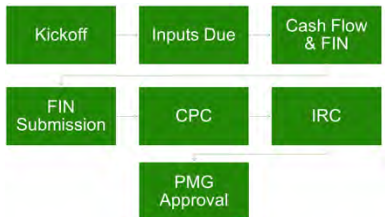


Managers, Supervisors, and On-The-Job Instructors are trained through classroom and floor sessions to understand operations as well as flow within the facility.

PPM onsite training (Courtesy Calvin Chun)

## Funding

\$657M in approved funds Q1 FY25 through Q1 FY26



PPM projects progress due to funding approvals obtained using standardized processes to document investment requests and track spending.

PPM Funding Flow Chart (PPM Funding Standardization Workbook)

# Fit Out



Procurement				Onsite Activation and Fit Out		Coordinate IT Infrastructure Installation	
Surface Visibility Scanners	Cardboard Baler	Manual Cases	MTEL	Informed Facility Monitors	Painted Staging Areas	Server and Core Setup	Telecommunications Enclosure
PIT Equipment and Charging Stations	Shrink Wrap Machine	Cardboard Racks		Conference Room Furniture	Cafeteria Furniture	Admin Core Rack	Core Rack

Pictures taken at Dallas RTH and Kansas City RPDC/RTH  
(Courtesy of Michael Kennedy & Douglas Coulter)

- Procurement of all supplies and equipment except Mail Processing Equipment
- Onsite Activation includes abating issues for multiple groups while onsite
- IT Coordination with WAN, LAN/WiFi, and MPE Networks teams
- Collaboration with various groups on Equipment Mapping across various Systems/Applications
- 18 RPDCs/RTHs/LPCs have been Fit Out and Activated by MI team through Q1 FY26





## Engineering Systems

*Brad McCullough*

# Engineering Systems - Mission

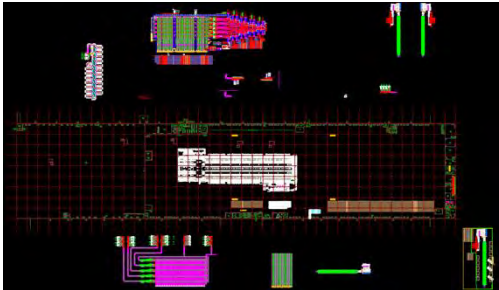
- Develop and enhance technology solutions to improve service, operational effectiveness, and promote revenue generation through timely delivery of integrated systems in support of performance management
- Our role in network projects is to design and deploy the best-fit equipment set to meet the needs of the operation.

## Requirements Analysis

Requirement	Outgoing	Destinating	RTH	Total
Throughput (base)	33,395	9,277	37,882	80,554
Throughput (design)	36,000	10,000	41,000	87,000
Separations	190	510	29	729
Operating Window (Hr.)	10	15.5	20	
Daily capacity (TPH)	360,000	155,000	820,000	1,335,000

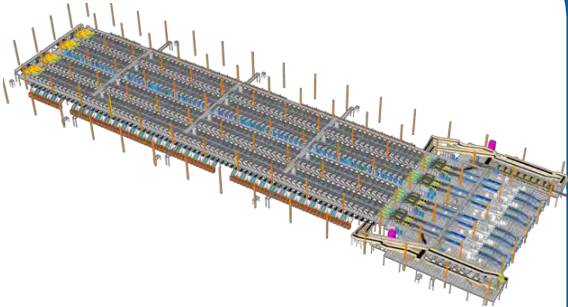
Determining the needed machine capacity to meet the daily production requirements

## Preliminary Design



Engineering starts with the base design from PPM with standard equipment blocks and begins modeling out various machine types and configurations to optimize the design.

## Critical Design Review



Once Engineering has selected the equipment sets, we work with the suppliers to continue refining the design and generate the equipment models. The Final step in the design is the Critical Design Review (CDR) during this, all stakeholders are assembled for a detailed walkthrough of the design.







## Logistics

*Erika Randel*

# Logistics: The Integrator of Modernization

In the USPS environment, logistics is transportation. This deck positions Transportation as the HQ implementation function working with field and division transportation teams to deliver successful change.

## Core message

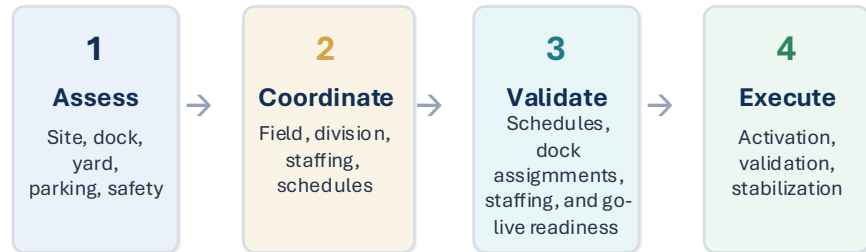
Transportation is not separate from logistics in the USPS world. Our HQ Logistics implementation team works in lockstep with field and division teams to align facility readiness, operational needs, and transportation execution for successful modernization.



One transportation organization, aligned from planning through go-live.



## How Logistics connects the work



**Logistics makes modernization operationally real.**

Postal Truck (image generated by OpenAI)

# What We Evaluate Before a Site Can Succeed

The checklist shows Logistics is a full-site readiness function, not just a transportation function



Land/road/yard/building (Courtesy of Cesar Lopez)

**Yard circulation, docks, parking, queuing, signage, and safe separation all shape implementation risk.**

**1 Facility readiness**  
Building conditions, electrical capacity, docks, structural constraints, and support spaces.

**2 Yard & traffic readiness**  
Truck circulation, trailer parking, employee parking, queuing, signage, and striping.

**3 Operational readiness**  
Dock assignments, staging alignment, mail flow support, staffing impacts, and workspace needs.

**4 Safety & security**  
Lighting, fencing, gates, crosswalks, camera coverage, and traffic control measures.

**5 Activation readiness**  
Schedules validated, stakeholders aligned, dependencies tracked, and go-live support planned.

# What Strong Logistics Integration Delivers

When Logistics is engaged early and stays aligned through activation, modernization performs better in the field.

## **Safer site movement**

Better separation of truck and employee flow, clearer circulation, and improved yard safety.

## **Stronger activation readiness**

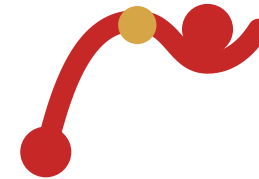
Dock use, schedules, staffing, and local execution are aligned before go-live.

## **Fewer implementation surprises**

Dependencies are surfaced earlier and resolved with the right partners.

## **Better post-go-live stability**

Transportation performance is easier to sustain after implementation.



**Logistics turns  
modernization from a  
design concept into day-to-  
day operating reality.**

Site

Schedules

Staffing



## Maintenance

*Kevin Couch*

# Maintenance Space Standardization

- **Goals**

- Standardize maintenance spaces on the workroom floor
- Standardize satellite spare parts storage on the workroom floor
- Utilize new technology and methods for accountability and asset management
- Standardized multi-platform tool bag

- **Benefits**

- Safer and organized workroom floor
- Improve satellite parts storage integrity and accountability
- Improve response time from maintenance work areas
- Provide space for processing and maintenance to seamlessly work together to improve customer service
- Improve maintenance engagement by having maintenance be the authority on how to run and maintain our equipment

# Previous Toolbox Storage

## Issue – One per employee

- Individual Toolbox
  - Creates clutter while stored
  - Eliminates floor space for Processing
  - Not secured
  - Lacking accountability



Legacy Toolboxes (Courtesy of Matt Carter, USPS)

# Multi-Platform Tool Bag

## Community Toolbox Solutions

- Multi-Platform Tool Bag
  - Supports reactive and preventive maintenance
  - Improve response time from maintenance work areas
- Community Toolbox Integrity
  - Automated login
  - Asset management controls
  - Safe and secure tool management



Tool Bag Stock Photo from  
MSC Industrial Supply –  
courtesy eBuy+



  
**AUTOMATION**

Snap-On toolbox Stock photo courtesy of Snap-On

# Satellite Parts and Supply Storage

- **Satellite Parts Storage**

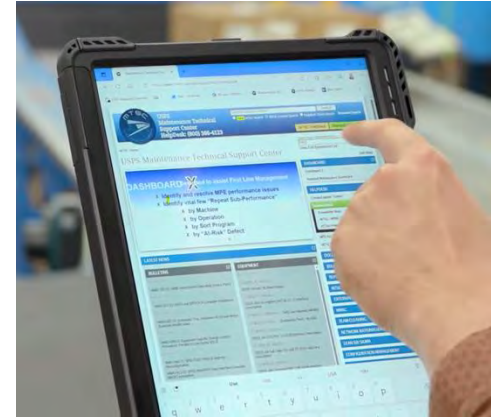
- 24-7 parts availability with accountability
- Quickly configure on-site
- Issue delicate items without dropping
- Fast issue time 10 seconds or less
- Automated restocking messages
- Universal search - Find any item plant-wide
- Automated login and issue - RFID Proximity cards, key fobs, mag-stripe cards, barcodes, & keypad/PINs
- Absolute accountability to item level supporting reliable stock integrity
- Upper and lower Tambor doors behind locked exterior door support dispensing 48" long items



AutoCrib Parts Cabinet, Photo courtesy of Matt Carter, USPS

# Digital Tools

- Footprint of Charging Cabinets
- Where to put Docking Stations/Monitors/Wired keyboard/Wired mouse
- Device Issuing / Accountability process
- Accountability of Employee Accessory Items
- Label each Laptop with a name



Tablet Photo courtesy of MTSC, USPS



Tablet Photo courtesy of MTSC, USPS



Headset Stock photo from HP



Charging Cabinet Stock photo from Eaton / Tripp Lite



External Battery Stock photo from Targus



Tablet Photo courtesy of MTSC, USPS



## Facilities

*George Schramm*

# Creating the Built Environment

## Applied Engineering

- **Building Designs**
  - Building Geometry
  - Equipment Sets
  - Power Requirements

## Engineering Systems

- **Machine Placement**
  - Power Distribution
  - Connection Points
  - Supervisor Platforms

## Logistics

- **Yard Design**
  - Gatehouses
  - Speed Mitigation Strategies
  - Pedestrian Crossings
- **Driver Support**
  - Logistics Control Room
  - Security Enclosures

## Maintenance

- **Support Spaces**
  - Maintenance Work Cells
  - Parts Storage

# Creating the Built Environment

## Updated Design Standards

- As the operational functions within USPS facilities continue to evolve, the design criteria has updated to provide relevant guidance
- Updated facility classifications, removing obsolete types
- Develop new design guidance:
  - Power requirements
  - Optimized vehicle flow & pedestrian safety
  - Maintenance workflow

## Project Strategy

- **Objective**
  - Leverage existing contracted services
  - Utilize the expediency of design/build
  - Develop ongoing partnerships to wash/rinse/repeat
- **Solution**
  - Dual Project Management Services Contracts (PMSC)

# Creating the Built Environment

## PMSC Contract 1

- Investigation phase
- Develops project requirements
- Prepares preliminary cost estimates
- Oversees design, quality control, standards compliance
- Functions as CM during construction

## PMSC Contract 2

- Functions as Design/Build contractor
- Completes design
- Phased construction