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NYNJPHL Airspace Redesign Implementation Schedule - FY09 Q1

PLEASE READ BEFORE READING IMPLEMENTATION SCHEDULE

Schedule Overview:

The New York/New Jersey/Philadelphia Metropolitan Area Airspace Redesign Implementation Plan (Plan) describes the tasks necessary to implement the Airspace Redesign project. Implementation is scheduled to take place in four (4) stages. The planned end dates for each stage are:

- Stage 1—March 6, 2009
- Stage 2—October 1, 2009
- Stage 3—November 9, 2011
- Stage 4—September 7, 2012

Line Items Overview (Left Pane):

The following Plan contains approximately 14,000 line items but it only shows the main tasks required to implement the Airspace Redesign. Many subtasks are hidden because they are composed of steps that recur each time the subtask is done. As an example, the development of an RNAV procedure is an 18 step process that is used each time an RNAV procedure is developed. This generic list of steps is described in detail only once in the implementation plan: TEB SID 24 - RNAV Procedure development is described on pages 3 - 4 of the Plan; all other RNAV procedure development line items contain only the subtask heading, but the 18 steps apply to that heading. Other subtasks that are comprised of a generic list of steps include: Procedure Development, Safety Risk Management, Spectrum Analysis, Business Case Analysis, Human-in-the-Loop Experiments, Airspace Implementation, and F&E Schedules.

Schedule Bar Chart (Right Pane) and Legend:

For those tasks that have been completed, a greater detail is shown and the respective schedule bar appears in green. Most of the bars appear as black because they are comprised of many subtasks that are incomplete. Each of the main tasks has a milestone subtask that indicates the completion point. The milestone tasks that are yet to be completed are shown as blue diamonds. Each main task also has a critical path that is comprised of subtasks that impact the total duration of the main task. These critical path tasks appear as red bars. Many milestones and critical tasks do not appear on the Plan because they are included in the subtasks under the main tasks. The planned end-date of each stage is shown as a red arrow.

Caveat:
The schedule is dependent on the resources available, design refinements, and the completion dates of earlier tasks; therefore, the schedule is subject to change. The Implementation schedule will be updated periodically and posted on the project website. Look for the next update in the Second Quarter of FY 2009 (March 2009)

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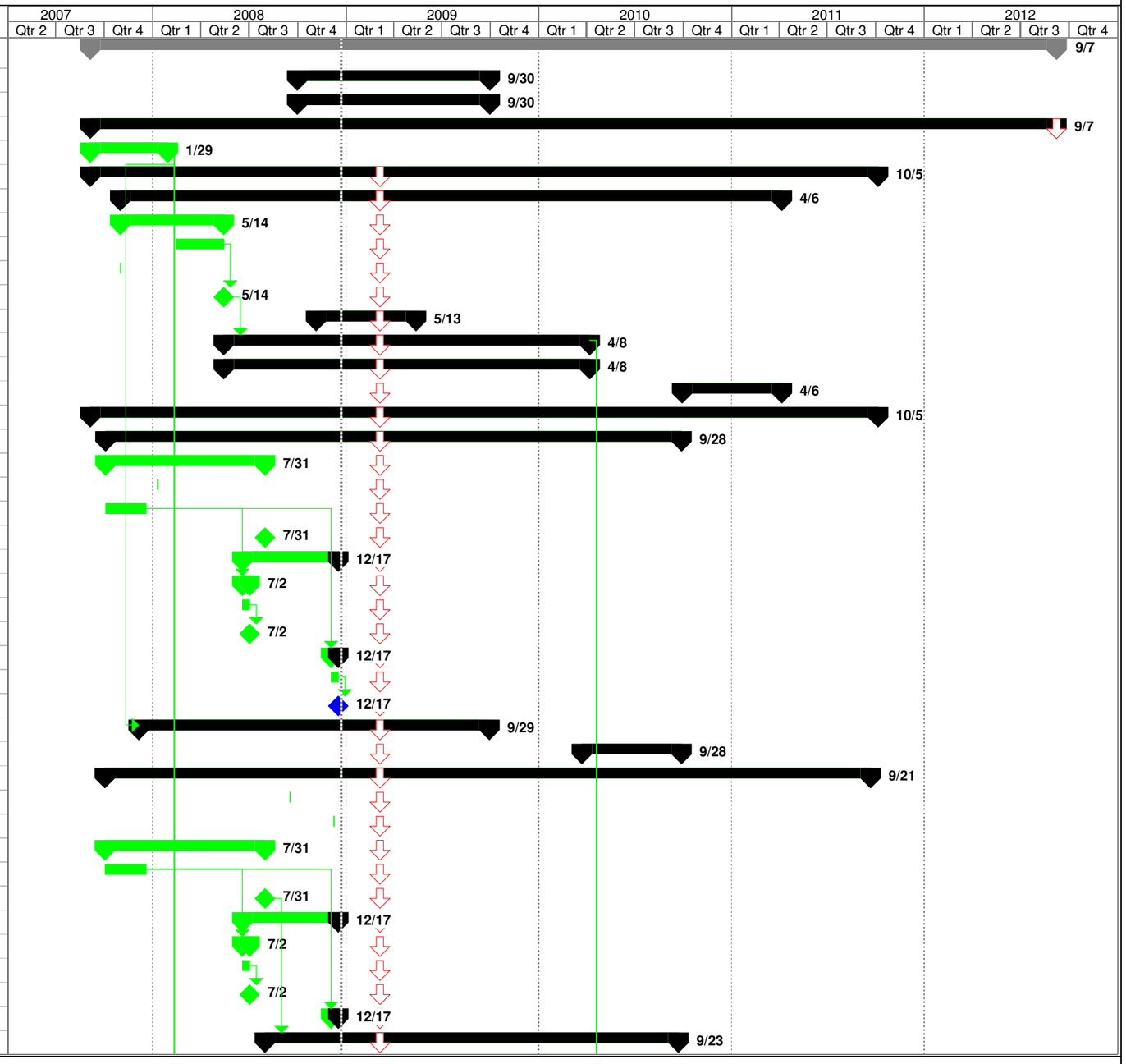
NYNJPHL Airspace Redesign Implementation Schedule - FY09 Q1

(Time-Line in Calendar Years)

	NYNJPHL AIRSPACE REDESIGN IMPLEMENTATION PLAN
	NYNJPHL Airspace Redesign Implementation Support Items
	FY09 Implementation Support Items (these support contracts and recurring meetings)
	NYNJPHL Airspace Redesign Implementation Items
	Stage 1 Meetings (Record of Decision, Coordination, Customer Forums and Kick Offs)
	Stage 1 - Procedural Changes
	Enroute Tasks
	ZNY Westgate Dual J80 Route from BRNAN Fix Westward
	Procedure for ZNY Westgate Dual J80 Route
	Customer Forum
	Publish Interim (operational)
	Post Implementation Operational Assessment of Conventional Route
	Develop RNAV Procedure for ZNY Dual J80 Route (Establish Q Route)*
	RNAV Process
	Post Implementation Operational Assessment of RNAV Route
	Terminal Tasks
	Stage 1 - EWR
	Implement EWR RWY 22s Dispersal Headings - Conventional Procedure
	Customer Forum
	Implementation of Conventional Procedure (2 Headings only - additional in later stage)
	Publish Conventional Procedure for Dispersal Heading
	Post Implementation Operational Assessment of Conventional Procedure
	Operational Assessment after Six Months
	Data Collection and Analysis
	Document Evaluation
	Operational Assessment after 12 Months
	Data Collection and Analysis
	Document Evaluation
	Implement EWR RWY 22s Dispersal Headings - RNAV Overlay*
	Post Implementation Operational Assessment of RNAV Procedure
	Stage 1 - PHL
	PHL RNAV Kick off Meeting
	PHL RNAV Design Meeting
	Implement PHL RWY 09 Dispersal Headings - Conventional Procedure
	Implementation of Conventional Procedure (2 Headings only, additional in later stage)
	Publish Conventional Procedure for Disperal Heading
	Post Implementation Operational Assessment of Conventional Procedure
	Operational Assessment after Six Months
	Data Collection and Analysis
	Document Evaluation
	Operational Assessment after 12 Months
	Implement PHL RWY 09 Dispersal Headings - RNAV Overlay*



* Tasks that are not essential to complete a Stage.

Completed Tasks | Milestone | Project Summary

Critical Task | Roll-up Summary | Planned Finish for Stages

Project: NYNJPHL AIRSPACE REDESIGN IMPLEMENTATION PLAN
Project Start Date: Wed 9/5/07

Mon 12/22/08

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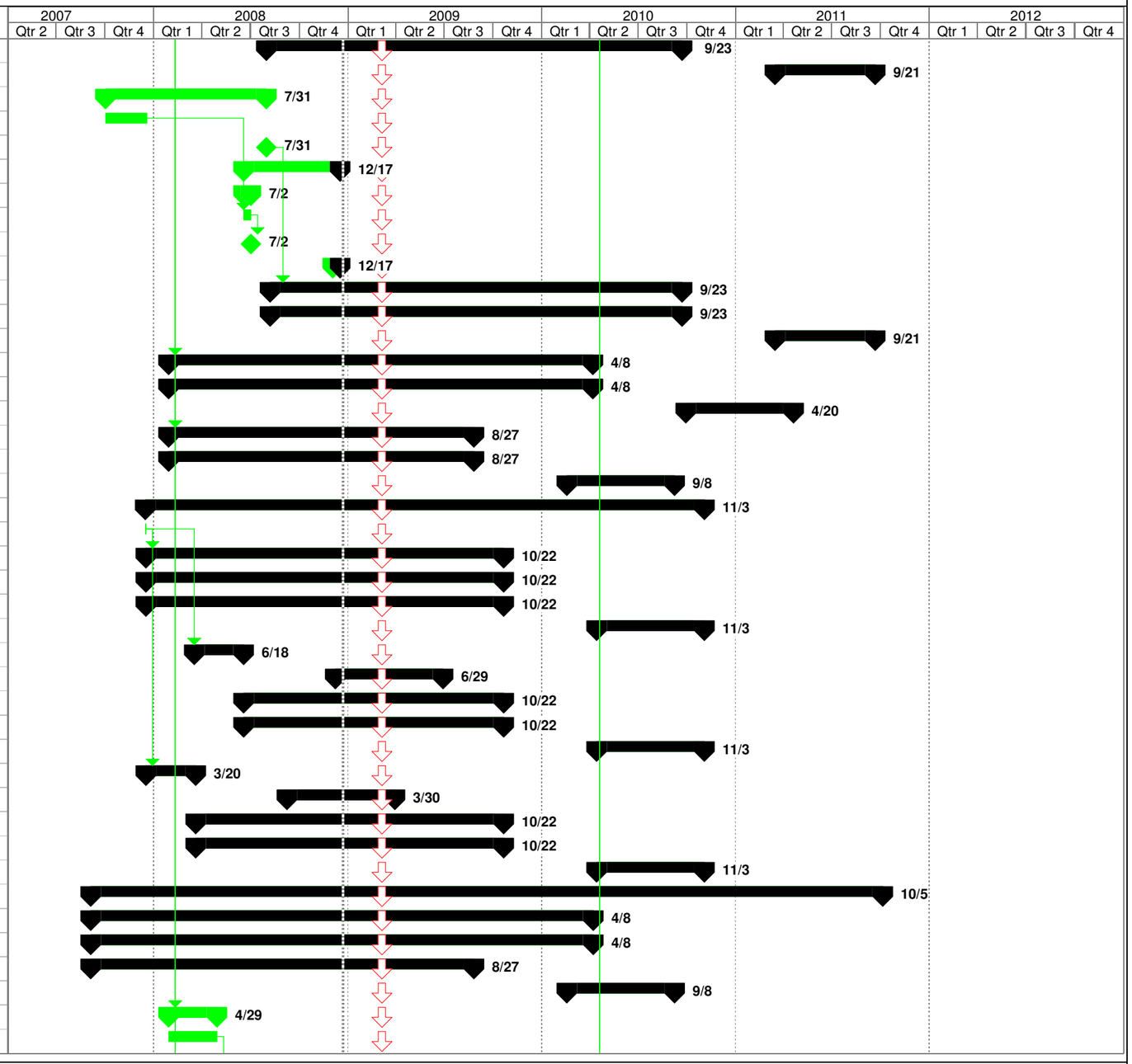
NYNJPHL Airspace Redesign Implementation Schedule - FY09 Q1
(Time-Line in Calendar Years)

	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Implement PHL RWY 27 Dispersal Headings - Conventional Procedure
	Implementation of Conventional Procedure (2 Headings only, additional in later stage)
	Publish Conventional Procedure for Disperal Heading
	Post Implementation Operational Assessment of Conventional Procedure
	Operational Assessment after Six Months
	Data Collection and Analysis
	Document Evaluation
	Operational Assessment after 12 Months
	Implement PHL RWY 27 Dispersal Headings - RNAV Overlay Procedure*
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Implement PHL DITCH SID Departure Procedures - RNAV Overlay Procedure*
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Implement PHL 9L/R River Visual Approach Procedure - RNAV/RNP Overlay Procedure
	RNAV/RNP Process
	Post Implementation Operational Assessment of RNAV/PNP Procedure
	Stage 1 - LGA
	RNAV Kickoff Meeting LGA
	LGA LDA to 22 RNAV Procedure
	STAR Development to transition to LDA Approach to 22 (RNAV Process)
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Implement LGA RWY 31 Dispersal Headings - Conventional Procedure
	Post Implementation Operational Assessment of Conventional Procedure
	Implement LGA RWY 31 Dispersal Headings - RNAV Procedure*
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Implement LGA RWY 4 Dispersal Headings - Conventional Procedure
	Post Implementation Operational Assessment of Conventional Procedure
	Implement LGA RWY 4 Dispersal Headings - RNAV Procedure*
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Stage 1 - JFK
	Implement JFK CRI (13) Approach - (RNAV Fix for VOR 13L/R and 13R/L Visual at JFK)
	Work around… Waypoint off Sandy Hook (named DVETO)
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Implement JFK RWY 31R Right Turn Departure - Conventional Procedure
	Implement Conventional Procedure



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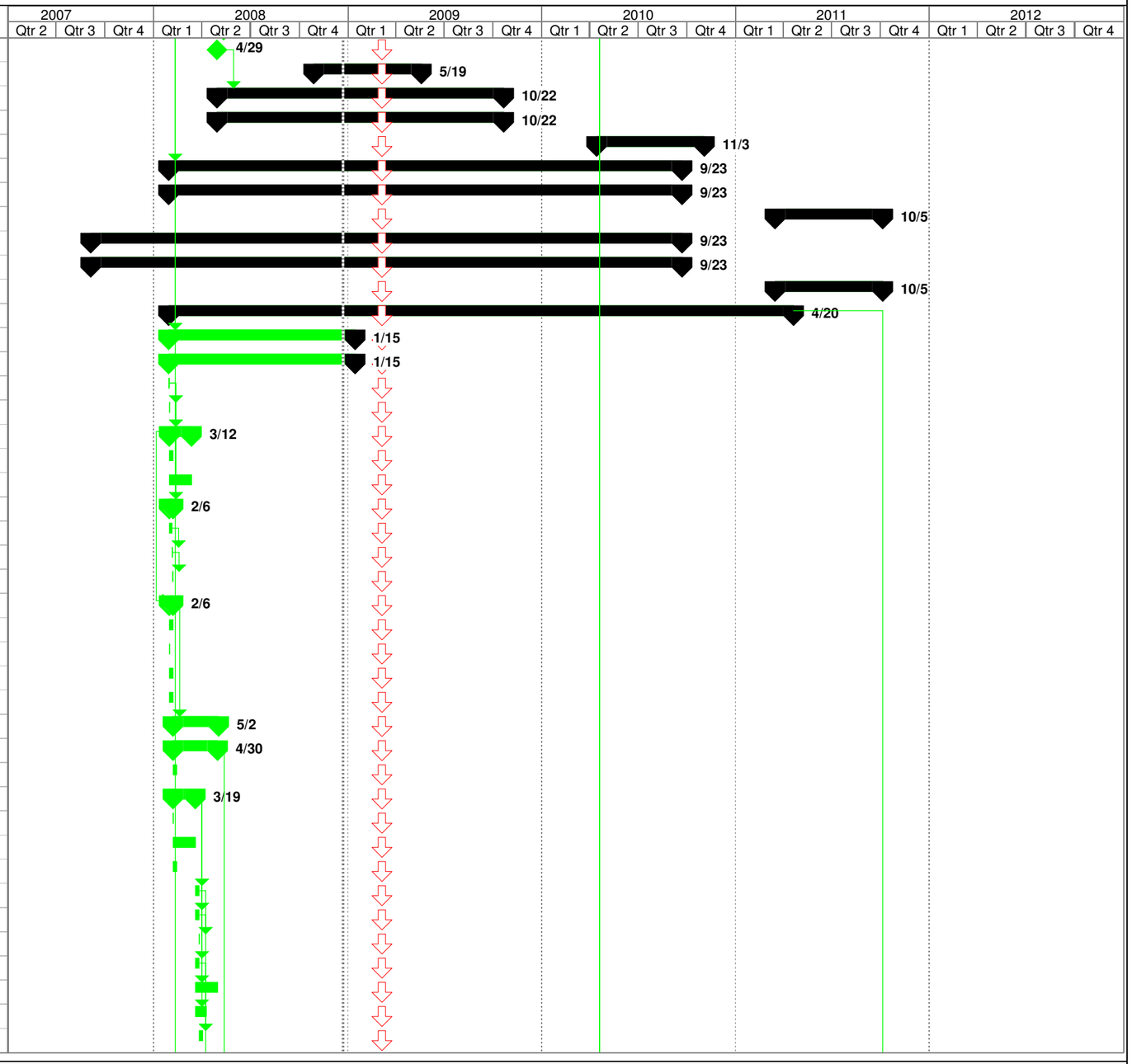
(Time-Line in Calendar Years)

	Publish Conventional Procedure
	Post Implementation Operational Assessment of Conventional Procedure
	Implement JFK RWY 31R Right Turn Departure - RNAV Procedure*
	RNAV Process (operationally not viable at this stage of implementation)
	Post Implementation Operational Assessment of RNAV Procedure
	Implement JFK (SID RWY 22R) RNAV Overlay of Departure Procedures*
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Implement JFK (SID RWY 04L) RNAV Overlay of Departure Procedures*
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Stage 1 - TEB
	Implement TEB SID 24 - RNAV Procedure (named RUDDY)
	RNAV Process - RUDDY
	Request RNAV Procedure
	Notify FPO of New Procedure & Establish Publication Date
	Prepare Prototype Design
	Information from Facility to adapt TARGETS
	Adaptation of TARGETS
	Concurrence from RAPT
	Submit to RAPT
	Review by RAPT
	Consensus by RAPT
	Kick off Meeting
	Establish a Prototype
	Advise Industry of Project Development
	Reserve Waypoint Name
	Establish Core Work Group & Development Schedule
	Working Group/Design
	Finalize/Review Prototype Design
	Initial Prototype Acceptance
	Design the Procedure
	Determine if Waiver Needed
	Altitude and Speed Assignments
	Lead Operator Flight Trials or Simulations
	Work Group Review Procedures
	Process Decision
	Facility Concurrence with Procedure
	Prepare Procedure Documentation
	Automation
	Environmental Review/Consistency with the FEIS
	Process Verification



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Completed Tasks — Milestone — Project Summary

Critical Task — Roll-up Summary — Planned Finish for Stages

Project: NYNJPHL AIRSPACE REDESIGN IMPLEMENTATION PLAN
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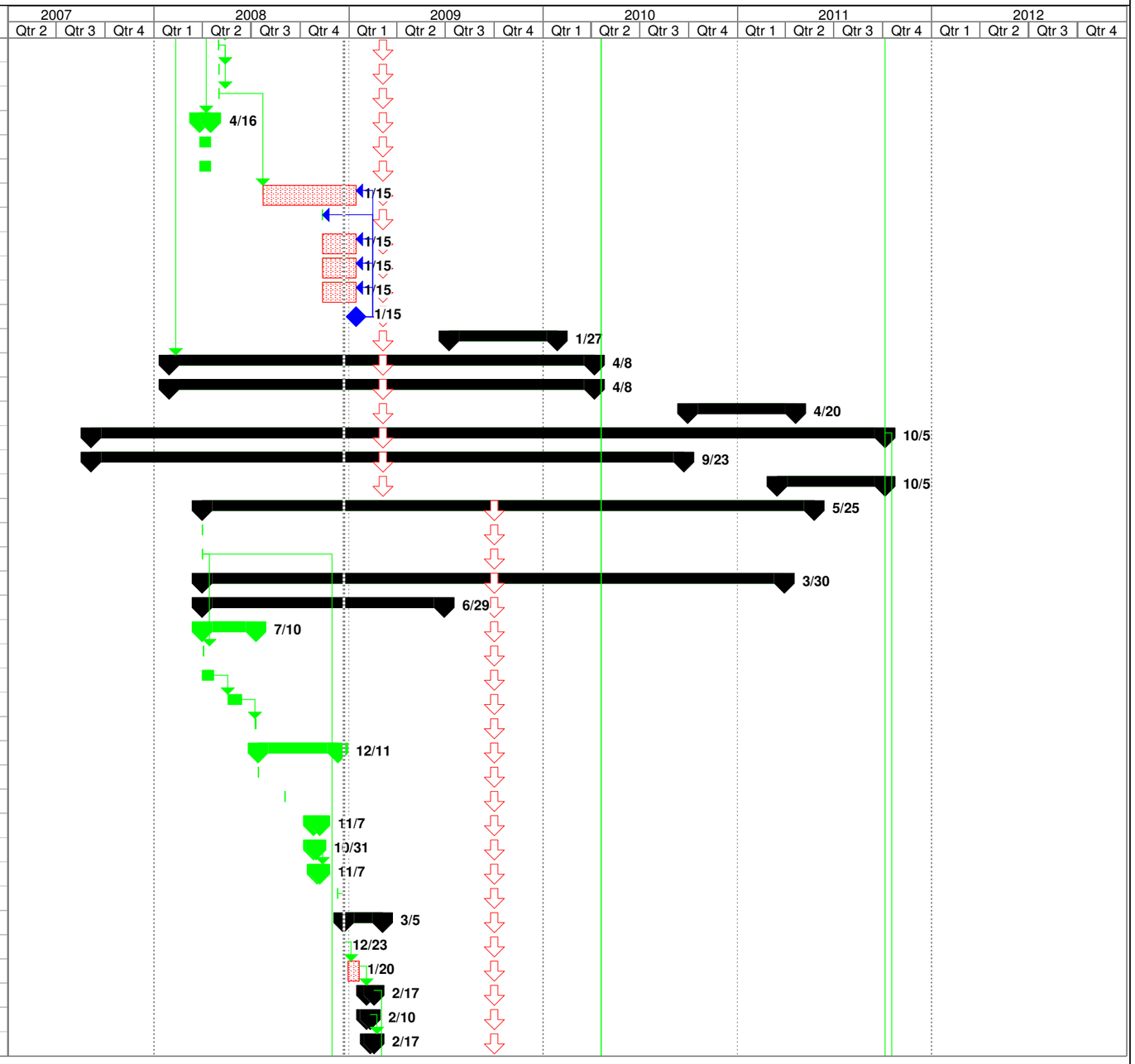
NYNJPHL Airspace Redesign Implementation Schedule - FY09 Q1
(Time-Line in Calendar Years)

	Confirmation of Prototype Design
	Submit to Service Area
	Submit Procedure Documentation to FPO
	Coordinate with adjacent facilities
	LOA
	SOP
	FPO Development and Publication
	Notifications Upcoming Procedure Publication
	Customer Training & Database Updates
	Video Map Update
	Facility Training on Upcoming Procedure
	Published
	Post Implementation Operational Assessment of RNAV Procedure
	Implement TEB LPV for RWY 19/24 - RNAV Overlay Procedure
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Stage 1 - Implement MMU RWY 23 Departures (SID 23) - RNAV Overlay Procedure*
	RNAV Process
	Post Implementation Operational Assessment of RNAV Procedure
	Stage 2 - Integration of ZNY & N90
	Post Implementation Operational Assessment of RNAV Procedure
	Stage 2 - Integration of ZNY & N90
	Identify ERAM Constraints
	Kickoff Meeting
	Westgate Expansion
	Westgate Expansion Design
	Enroute - Westgate Expansion Design
	ZNY Design Meeting
	ZNY West Corridor Design
	ZNY Experiment (HITL)
	ZNY Design Briefing
	Terminal - Westgate Expansion Design
	N90 Design Meeting
	N90 Design Verification
	N90 Design HITL
	Scrub
	Experiment
	N90 Design Briefing
	Combined Terminal and Enroute - Westgate Expansion
	Design Kickoff Meeting
	Design Prototype
	Experiment (HITL)
	Scrub
	Experiment



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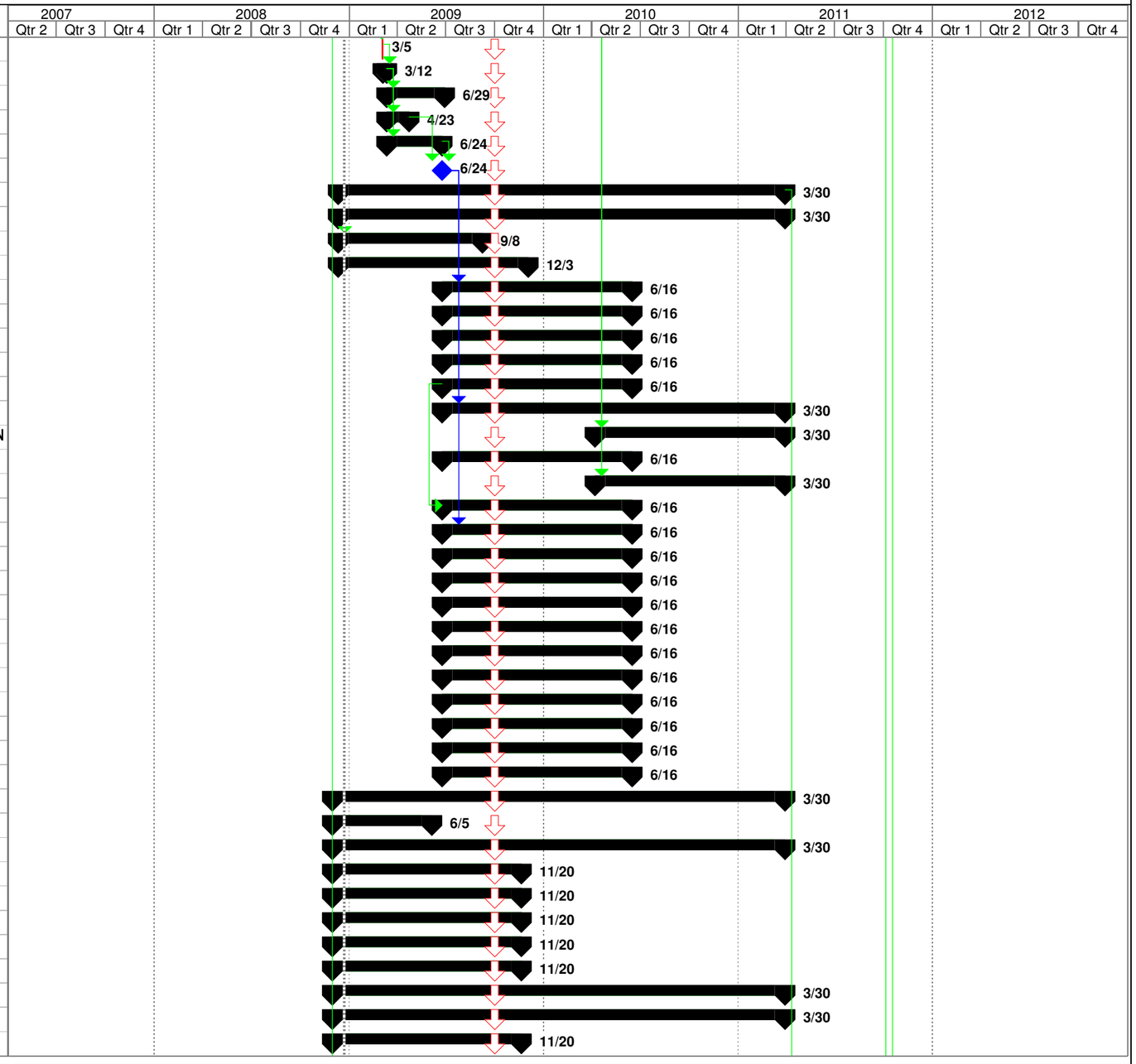
(Time-Line in Calendar Years)

	Design Briefing
	Design and Implementation Scoping
	Preliminary Evaluation for Business Case/Need for White Paper
	Spectrum Feasibility
	SMS/SRM Requirment
	Finalized Design
	Westgate Expansion Implementation
	Enroute Tasks - Westgate Expansion
	Realign RBV Crossing Traffic Through ZNY39 and ZNY55
	Establish Additional Departure Fixes (5th Fix)
	Integrate Airspace
	Review and Design transfering airspace from ZNY39 and ZNY55 to N90
	Redesign ZNY39 for JFK - NEWEL / ELIOT / PARKE Traffic
	Redesign Remaining Airspace for ZNY39 and 55 and Impacted Adjacent Sectors
	Institute Terminal Rules at ZNY for Sectors 39 and 55
	Reroute Traffic to Existing Jet Airways
	Reroute ZID Destinations (currently on J80) to BRNAN Transition Route (AKA J80N
	Reroute CVG Flights to J6
	Create PHL Departure Airway to BRNAN Transition Route (AKA J80N)
	Create New PCT Arrival Routes from ZBW (all airports)
	Terminal Tasks - Westgate Expansion
	N90 Westgate Expansion
	Incorporate New Westgate Fix
	Reroute JFK RBV Departures to the Westgate
	Reconfigure all other impacted SIDs
	Integrate Airspace
	Accept New Airspace from ZNY
	Redesign LIBW
	Reconfigure Departure Positions at N90
	Move Equipment/Position Display - Catskill Position
	Move Equipment/Positions - LIB Sector and ZNY39 and 55
	PHL Arrival and Departure Routes Adjustments
	Routings Design
	Implementation of Design
	Enroute Tasks - PHL
	Reroute PHL Arrivals from ZOB
	Shift Western Arivals from BUNTS to BUKKS
	Realign PHL Arrival Flows to Existing Arrival Fixes
	Shift PTW NW Departures to the North
	Terminal Tasks - PHL
	Reconfigure PHL Westbound Departures
	Create New 3rd Westbound MXE Departure Fix at PHL



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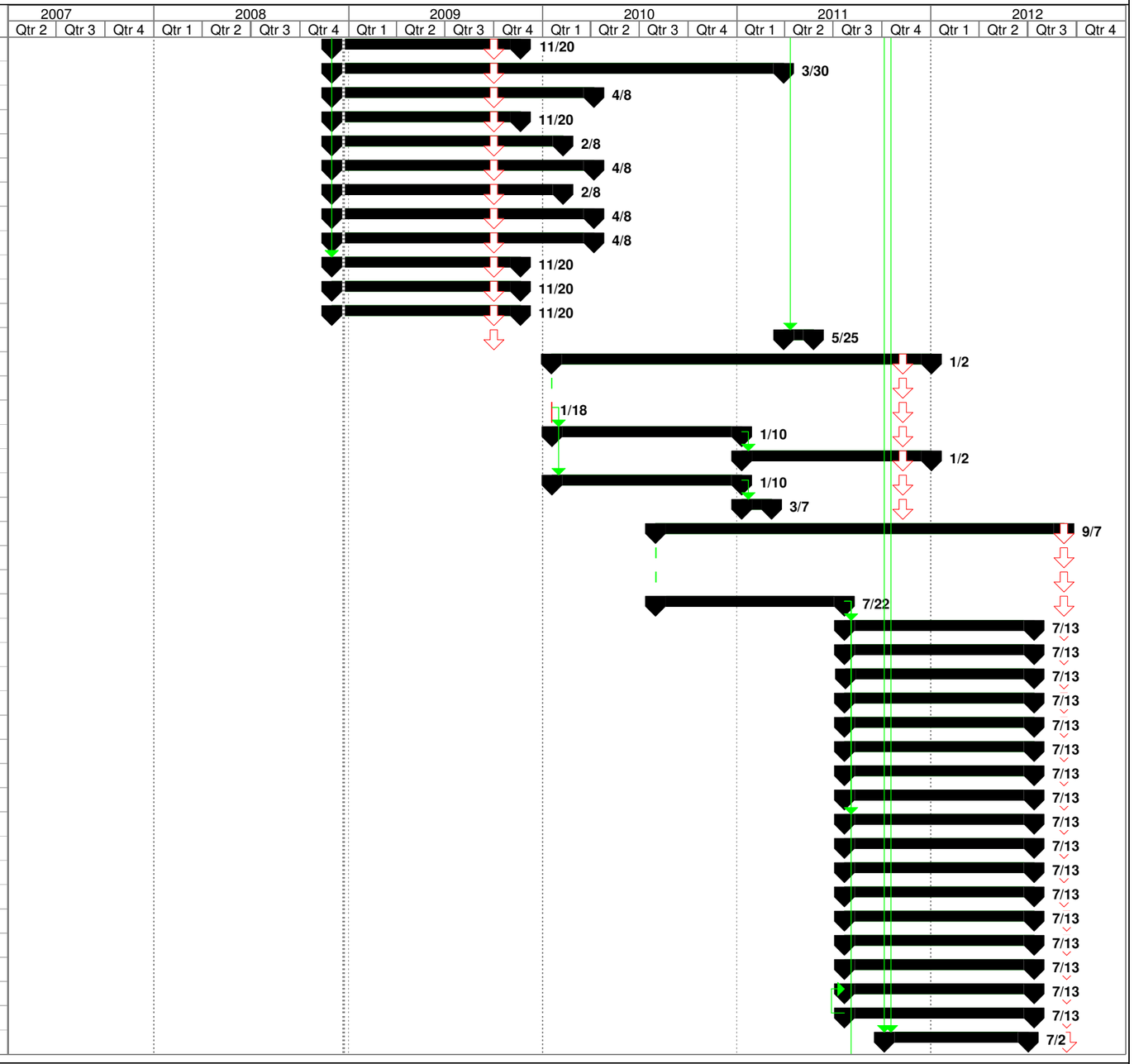
(Time-Line in Calendar Years)

	New Departure Fix Potential Dependancies
	Reroute PHL Departures
	Develop RNAV Overlay Procedure for PHL Routing over MXE
	Reroute PHL East Departures via DITCH
	PHL RWY 09 3rd & 4th Dispersal Headings - Conventional Procedure
	PHL RWY 09 3rd & 4th Dispersal Headings - RNAV Procedure
	PHL RWY 27 3rd Dispersal Heading - Conventional Procedure
	PHL RWY 27 3rd Dispersal Heading - RNAV Procedure
	Develop New Approaches for PHL
	JFK - Terminal Tasks
	Redesign routes and establish altitude restrictions on LENDY arrivals
	Reroute JFK Europe Arrivals via ROBER
	Establish Traffic Flow Management Rules
	Stage 3 - Boundary Changes
	Identify ERAM Constraints
	Kickoff Meeting
	Northgate Expansion Design
	En-route Implementation Tasks - Northgate Expansion
	Terminal Tasks - Northgate Expansion
	Establish Traffic Flow Management Rules
	Stage 4 - Transfer of Sectors
	Identify ERAM Constraints
	Stage 4 - Kickoff Meeting
	Reallocation of Airspace between ZNY, ZBW, ZDC, N90
	En-route Tasks
	Southgate Realignment
	Eastgate Realignment
	EWR Tasks
	TEB/MMU Tasks
	JFK Tasks
	ISP Tasks
	LGA Tasks
	Terminal Tasks
	Southgate Realignment
	Eastgate Realignment
	EWR Tasks
	Redesigning EWR Arrivals/Departures
	Terminal Changes for 22
	Terminal Changes for 04
	Cancel FQM STAR
	Relocate SHAFF 6 STAR West for EWR
	Implement 3rd Dispersal Heading at EWR - RNAV Procedure



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		2007			2008				2009				2010				2011				2012			
		Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
	EWR Night Time Ocean Routing Departures for Noise Mitigation (RWY 22)																			7/13			
	Adjust EWR Arrival Procedures																			7/13			
	Create Optimal Profile Decent Approach Procedures (Continuous Decent Approach -CDA)																			7/13			
	Create Optimal Profile Decent for EWR South Approaches to RWY 04 (RNAV)																			7/13			
	Create Optimal Profile Decent for EWR North Approaches to RWY 22 (RNAV)																			7/13			
	TEB/MMU Tasks																			7/13			
	JFK Tasks																			7/13			
	ISP Tasks																			7/13			
	LGA Tasks																			7/13			
	HPN Tasks																			7/13			
	Shift Arrival Streams																			7/13			
	Shift Departure Streams																			7/13			
	Reroute HPN Eastern Departures (shift South)																			7/13			
	Reroute HPN Southern Departure Streams to the West																			7/13			
	Reroute HPN Northern and Western Departure Flows to the northeast																			7/13			
	Establish Departure Procedures for HPN																			4/18			
	RNAV Overlay Procedures for HPN RWY 34 to J75 Departures																			4/18			
	RNAV Overlay Procedures for HPN RWY 34 to ZNY Southgate Departures																			4/18			
	RNAV Overlay Procedures for HPN RWY 34 to ZNY Northgate Departures																			4/18			
	RNAV Overlay Procedures for HPN RWY 34 to ZNY Westgate Departures																			4/18			
	RNAV Overlay Procedures for HPN RWY 34 to ZNY Northgate Departures																			4/18			
	RNAV Overlay Procedures for HPN RWY 34 to ZNY Westgate Departures																			4/18			
	RNAV Overlay Procedures for HPN RWY 34 to ZNY Eastgate Departures																			4/18			
	PHL Tasks																			4/18			
	Create Optimal Profile Decent Procedures (Continuous Decent Approach -CDA)																			4/18			
	Create Optimal Profile Decent for PHL for all fixes to 27 (RNAV)																			4/18			
	Create Optimal Profile Decent for PHL for all fixes to 09 (RNAV)																			4/18			
	General Integration Tasks																			7/13			
	TEC Adjustments																			7/13			
	Satellite Airports (23 EIS Study Airports)																			7/13			
	Reroute J42 to BOS (and Satellites) to the East																			7/13			
	Reroute BOS (and Satellites) Southwest Departure Routes West of BDR																			7/13			
	Westgate finalization																			7/13			
	Shift DCA/BWI Arrival Routes from ZBW																			7/13			
	Establish Traffic Flow Management Rules																			7/13			9/7

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Acronyms Related to Airspace Redesign Project

ARD	Yardley VOR
ARTCC	Air Route Traffic Control Center
BDR	Bridgeport VOR
BOS	Boston Logan Airport
BWI	Baltimore Washington International Airport
CDA	Continuous Decent Approach
CRI	Canarsie VOR
DCA	Reagan National Airport
DTW	Detroit International Airport
EIS	Environmental Impact Statement
ERAM	Enroute Automation Modernization
EWR	Newark International Airport
FEIS	Final Environmental Impact Statement
FPO	Flight Procedures Office
FQM	Williamsport VOR
GPS	Global Positioning System
HAR	Harrisburg VOR
HITL	Human in the Loop
HPN	White Plains/Westchester County Airport
IAD	Dulles International Airport
IFR	Instrument Flight Rules
ILS	Instrument Landing System
ISP	Long Island MacArthur Airport
J#	Jet Route#
JFK	JFK Airport
LDA	Localizer Directional Aid
LGA	LaGuardia Airport
LIB	Liberty Sector
LOA	Letters of Agreement
LPV	A type of approach with vertical guidance based on WAAS, published on RNAV (GPS) approach charts
MMU	Morristown Airport
MXE	MODENA (Departure Fix for PHL & its Satellites)
N90	New York TRACON
NAP	Needs Assessment Program
OOD	Woodstown VOR
OPD	Optimal Profile Decent

Acronyms Related to Airspace Redesign Project

PCT	Potomac TRACON
PHL	Philadelphia Airport
PTW	Pottstown VOR
Q Route	RNAV only Jet Route
RAPT	Regional Airspace Procedure Team
RBV	Robinsville VOR
RNAV	Area Navigation
RNP	Required Navigational Performance
ROD	Record of Decision
ROMA	Route Optimization and Mitigation Analysis
RWY	Runway
SID	Standard Instrument Departure
SMS	Safety Management System
SOP	Standard Operating Procedures
SRM	Safety Risk Management
SRMD	Safety Risk Management Document
STAR	Standard Terminal Arrival Route
SWAP	Severe Weather Avoidance Plan
TARGETS	Terminal Area Route Generation Evaluation and Traffic Simulation
TEB	Teterboro Airport
TEC	Tower Enroute Control
TMA	Traffic Management Advisor
TRACON	Terminal Radar Approach Control
VCN	Cedar Lake VOR
VFR	Visual Flight Rules
VHF	Very High Frequency
VOR	VHF Omni-directional Radio Range Station
WAAS	Wide Area Augmentation System
ZBW	Boston ARTCC
ZDC	Washington ARTCC
ZID	Indianapolis ARTCC
ZNY	New York ARTCC
ZOB	Cleveland ARTCC