JFK Airport Committee

New York Community Aviation Roundtable

Monday, **December 2, 2024**
7:00 - 9:00 PM
Zoom Meeting

Chairperson: Barbara E. Brown

Executive Board
Dan Mundy, 1ˢᵗ Vice Chair
Vacant, 2ⁿᵈ Vice Chair
Patrick Evans, Recording Secretary
Vacant, Corresponding Secretary

Bill Huisman, Facilitator

Agenda

1. Welcome/Roll Call   7:00

2. Minutes   Patrick Evans   7:10

3. *Ralph Tamburro, PANYNJ*   7:15
   a) *Review of Status of Implementation of NextGen at JFK*
   b) *Review of Continuous Descent Vs. Step Down Approaches and Limitations*

4. *Review of Following Topics:*   7:40
   a) *Components of Air Traffic Control,*
   b) *Runway Design,*
   c) *Role of Wind in Runway Usage*

5. *Runway Usage--JFKAC Review and Recommendations re:*   *8:00*
   a) *Equitable Runway Distribution*
   b) *Excessive Hourly Flights*
   c) *Flight Path Dispersion*

6. Public Comment Period(Time Permitting)   8:50
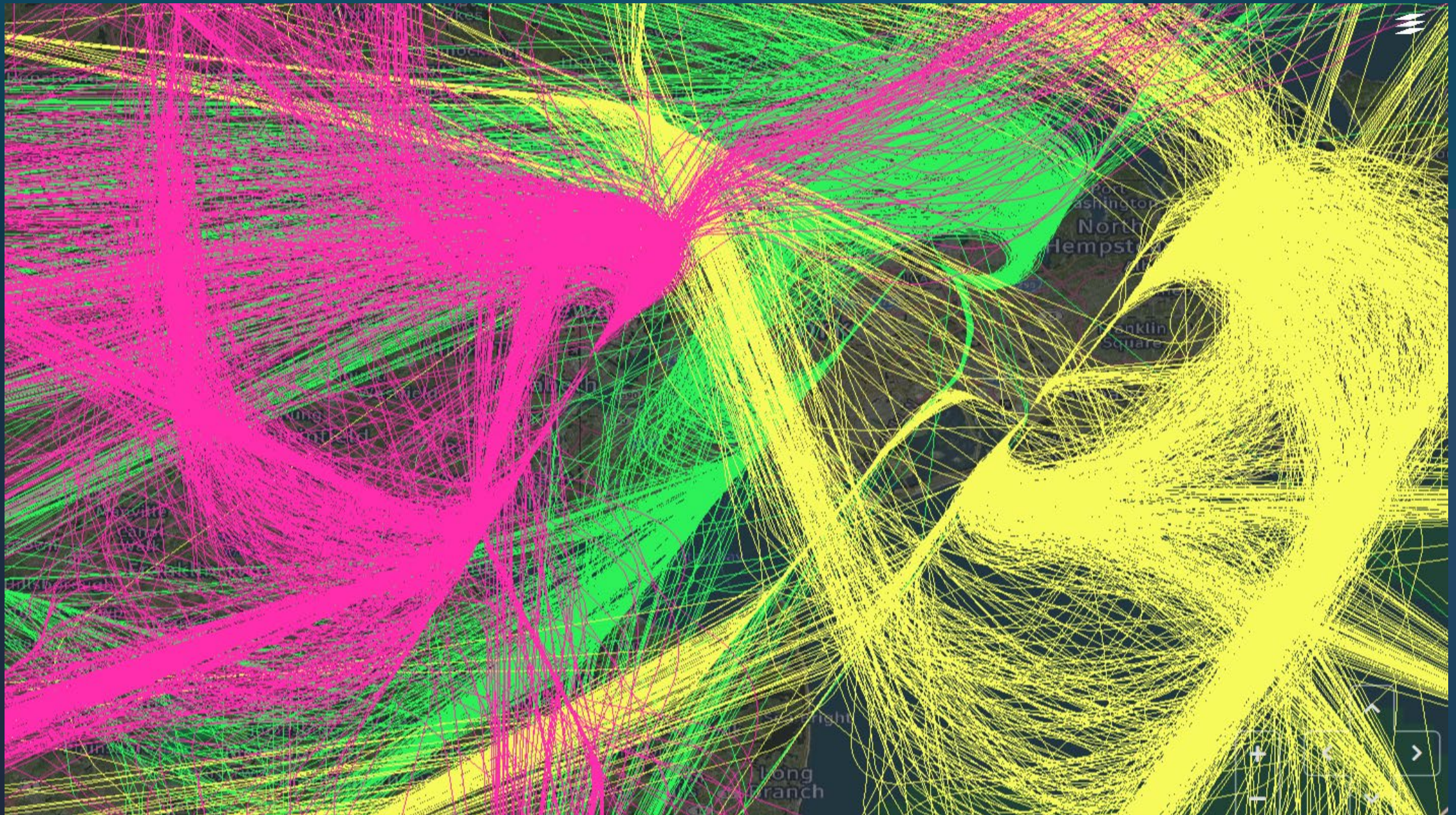
7. Adjournment   9:00

12-2-2024

NEXTGEN JFK

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PORT AUTHORITY NY NJ

AIR LAND RAIL SEA

Typical 24 hours of flight operations in NY

NEXTGEN

Key Programs

These webpages grouped by air traffic management functional areas, provide more information about NextGen technologies.

Communications
- •Data Communications

Navigation
- •Performance Based Navigation
- •Satellite Navigation
- •Metroplex

Surveillance
- •Automatic Dependent Surveillance–Broadcast (ADS-B)
- •Equip ADS-B

Automation
- •Advanced Technologies and Oceanic Procedures
- •En Route Automation Modernization
- •Standard Terminal Automation Replacement System
- •Terminal Flight Data Manager
- •Time Based Flow Management
- •Traffic Flow Management System

Information Management
- •System Wide Information Management

Weather
- •NextGen Weather

Nontraditional Operations
- •Unmanned Aircraft Systems Research
- •Advanced Air Mobility
- •Space Data Integrator
- •Remote Towers

Research and Development

These webpages provide more information about laboratories that support research, development, testing, and evaluation of NextGen technologies.

- •William J. Hughes Technical Center
- •NextGen Integration and Evaluation Capability
- •Florida Test Bed
- •NASA North Texas Research Station

Safety and Environment

These webpages refer to select programs or resources that contribute to the NAS of the future.

- •Safety Management System
- •Aviation Safety Information Analysis and Sharing (ASIAS) System
- •Environment and Energy Research and Development
- •Continuous Lower Energy, Emissions, and Noise (CLEEN) Program

NEXTGEN

What is NextGen?

Initiated in 2003 to "modernize" the Air Traffic System, which was lagging in technology and infrastructure, developed a plan to create a system that assisted Air Traffic Controllers in doing their jobs. Since its inception many changes were made to the original concepts.

Some examples of current NextGen improvements:

- Data Comm or CPDLC – electronic communications with capable aircraft

- ADS-B - Automatic Dependent Surveillance Broadcast

- TMA-TBFM Traffic Management Advisor, Time Based Flow Management
  Enhanced sequencing tools for ATC

- TFDM – Terminal Flight Data Manager
  Enhanced automation for Air Traffic Control Towers
  Electronic flights strips, improved data sharing

NEXTGEN - Metroplex

A Metroplex is a geographic area covering several airports, serving major metropolitan areas and a diversity of aviation stakeholders such as NAS users, FAA, and other lines of business and airport operators. Congestion, airport activity in close geographical proximity, and other limiting factors such as environmental constraints combine to reduce efficiency in busy Metroplexes.

The National Environmental Policy Act of 1969 (NEPA) requires federal agencies to disclose to decision makers and the interested public a clear, accurate description of potential environmental impacts of proposed federal actions and reasonable alternatives to those actions.

Metroplex Airspace Locations:

- Atlanta
- Charlotte
- Cleveland-Detroit
- Denver
- Houston
- Las Vegas
- North Texas
- Northern California
- South Central Florida
- Southern California
- Washington, D.C.

Why not NY? Since it is the most complex metroplex in the US?

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NEXTGEN

NextGen Advisory Committee: The objective is to provide independent advice and recommendations to the Federal Aviation Administration (FAA) and to respond to specific taskings received directly from FAA. may adopt.

Northeast corridor was formed in 2017 by the NAC committee chairman to "FIX NY"

They were highlighting the need for additional technology

Over 100 recommendations were made by the NEC group, many of which would have provided dispersal headings off the various runways in the NY Area

Only a few have been implemented

Several Part 150 recommendations were accelerated by the NEC

Currently available procedures for JFK

14 PBN approaches – 2 are used

19 conventional approaches

2 PBN departure SIDs – both are used

1 conventional SID (covers all departure runways)

1 PBN STAR

4 conventional STARS

STARs - Standard Terminal Arrivals

CAMRN FOUR	download (149KB)
KINGSTON ONE	download (157KB)
LENDY EIGHT	download (162KB)
PARCH THREE (RNAV) **CHANGED**	download (243KB)
PAWLING TWO	download (206KB)

IAPs - Instrument Approach Procedures

ILS OR LOC RWY 04L	download (312KB)
ILS OR LOC RWY 04L	download (312KB)
ILS OR LOC RWY 04R	download (325KB)
ILS OR LOC RWY 04R	download (325KB)
ILS OR LOC RWY 13L	download (352KB)
ILS OR LOC RWY 22L	download (360KB)
ILS OR LOC RWY 22R	download (357KB)
ILS OR LOC RWY 31L	download (307KB)
ILS OR LOC RWY 31R	download (324KB)
ILS RWY 13L (CAT II)	download (304KB)
ILS RWY 04R (CAT II - III)	download (308KB)
ILS RWY 22L (CAT II - III)	download (344KB)
RNAV (RNP) Z RWY 04L	download (253KB)
RNAV (RNP) Z RWY 04R	download (257KB)
RNAV (RNP) Z RWY 22L	download (314KB)
RNAV (RNP) Z RWY 31L	download (280KB)
RNAV (RNP) Z RWY 31R	download (283KB)
RNAV (GPS) RWY 22R	download (306KB)
RNAV (GPS) X RWY 22L	download (295KB)
RNAV (GPS) Y RWY 04L	download (293KB)
RNAV (GPS) Y RWY 04R	download (305KB)
RNAV (GPS) Y RWY 22L	download (304KB)
RNAV (GPS) Y RWY 31L	download (306KB)
RNAV (GPS) Y RWY 31R	download (318KB)
RNAV (GPS) Z RWY 13L	download (302KB)
RNAV (GPS) Z RWY 13R	download (280KB)
VOR RWY 22L	download (281KB)
VOR OR GPS RWY 13L/R	download (356KB)
VOR RWY 04R	download (284KB)
VOR RWY 31L	download (276KB)
COPTER RNAV (GPS) 027	download (188KB)
BELMONT VISUAL RWY 22L	download (172KB)
PARKWAY VISUAL RWY 13L/R	download (292KB)
NOTE: Special Alternate Minimums apply	download (145KB)

Departure Procedures

DEEZZ FIVE (RNAV)	2 pages: [1] [2] (336KB)
KENNEDY FIVE	2 pages: [1] [2] (493KB)
SKORR FIVE (RNAV)	2 pages: [1] [2] (340KB)
NOTE: Special Take-Off Minimums/Departure Procedures apply	download (454KB)

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SID usage

RNAV SID Usage

April 2024 RNAV SID Usage ⓘ

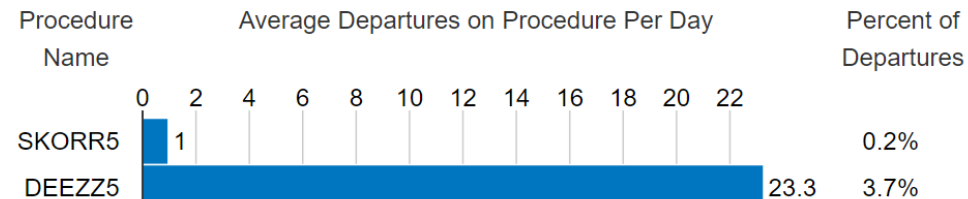| Procedure Name	Average Daily Usage Count	Average Daily Usage Percent of Departures
DEEZZ5	23.5	3.7%
SKORR5	0.9	0.1%

Calendar Year 05/01/2024 - 04/30/2024 RNAV SID Usage ⓘ

Procedure Name	Average Daily Usage Count	Average Daily Usage Percent of Departures
SKORR5	1.0	0.2%
DEEZZ5	23.3	3.7%

April 2024 RNAV SID Average Daily Usage ⓘ

Procedure Name	Average Departures on Procedure Per Day	Percent of Departures
DEEZZ5	23.5	3.7%
SKORR5	0.9	0.1%

05/01/2024 - 04/30/2024 RNAV SID Average Daily Usage ⓘ

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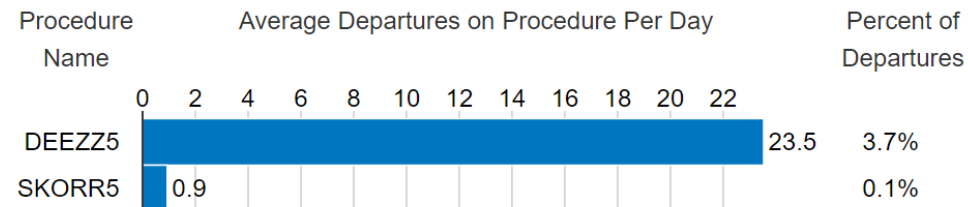
STAR usage

RNAV STAR Usage

April 2024 RNAV STAR Usage

Procedure Name	Average Daily Usage Count	Average Daily Usage Percent of Arrivals
PARCH3	112.2	17.7%

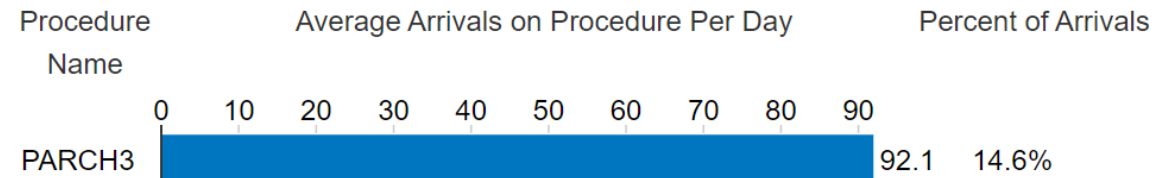### Calendar Year 05/01/2024 - 04/30/2024 RNAV STAR Usage

Procedure Name	Average Daily Usage Count	Average Daily Usage Percent of Arrivals
PARCH3	92.1	14.6%

April 2024 RNAV STAR Average Daily Usage

Procedure Name	Average Arrivals on Procedure Per Day	Percent of Arrivals
PARCH3	112.2	17.7%

05/01/2024 - 04/30/2024 RNAV STAR Average Daily Usage

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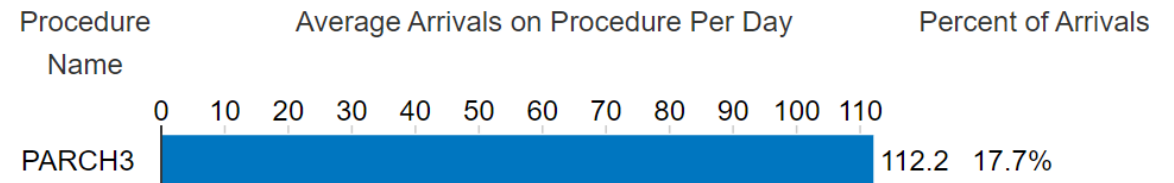
PBN usage

RNP AR with RF Leg Usage

April 2024 RNP AR Usage

| Procedure Name	Days Published in Database	Total Candidates	Total Executed	Percent Executed
H22LZ	30	3784	7	0.2%

Calendar Year 05/01/2024 - 04/30/2024 RNP AR Usage

Procedure Name	Days Published in Database	Total Candidates	Total Executed	Percent Executed
H22LZ	366	51310	58	0.1%

NextGen GAO report

- [GAO-17-450, AIR TRAFFIC CONTROL MODERNIZATION: Progress and Challenges in Implementing NextGen](#)

Questions?
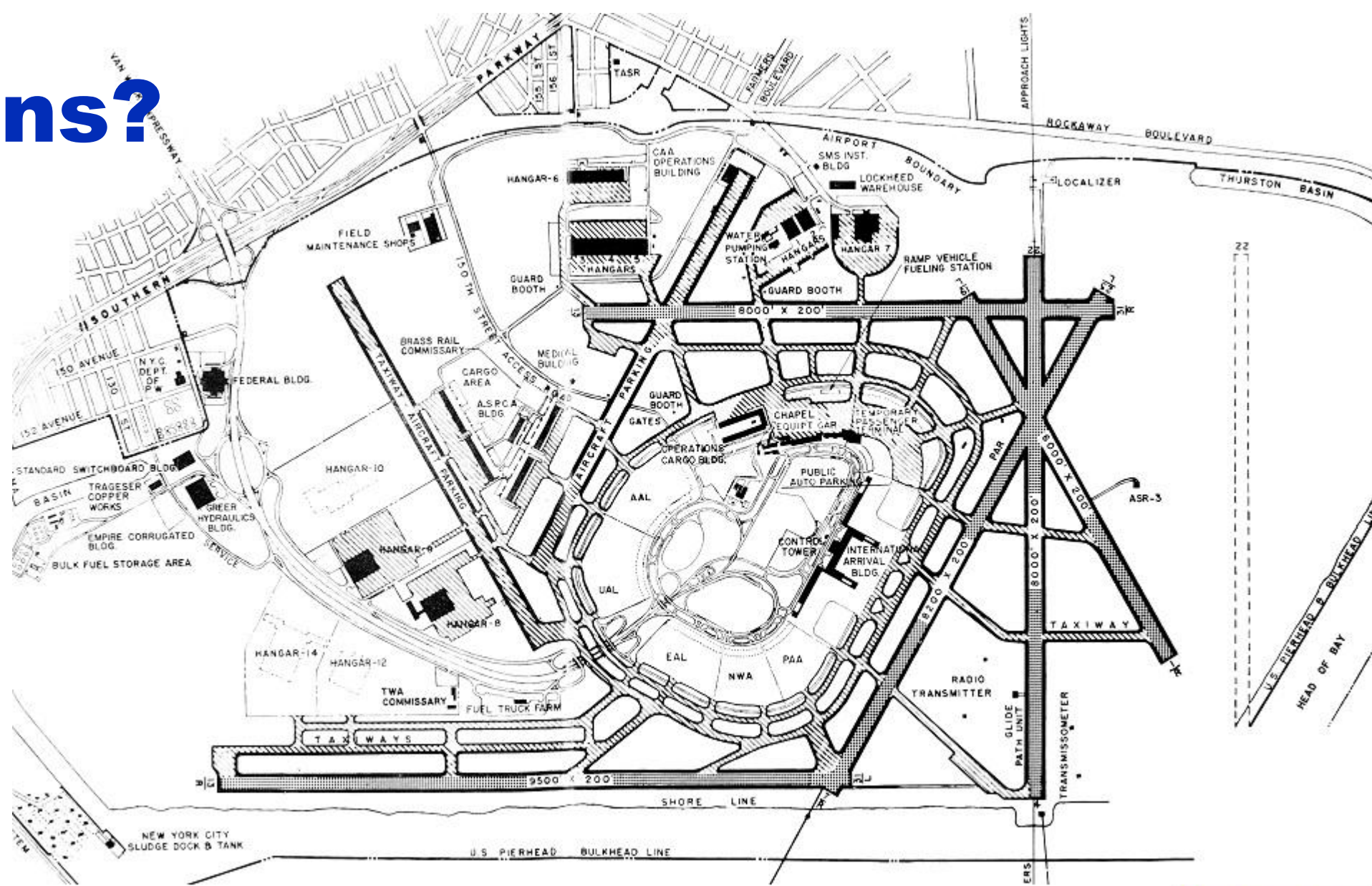
Credit: The AirportHistory.org Collection