

## BVY AIRPORT MASTER PLAN

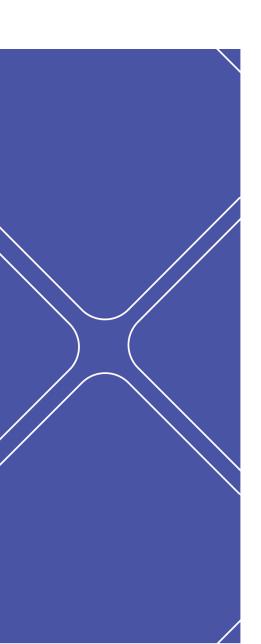
Planning Advisory Committee Meeting

January 16, 2020









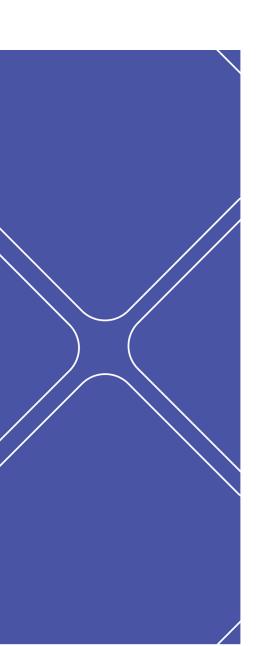
## MEETING OBJECTIVES

## Today we will leave with:

- An understanding of the Airport Master Plan process and the value of airport planning
- An awareness of the key relationships and requirements in the airport industry including expectations of the PAC
- Knowledge of the work-to-date on the inventory and aviation demand forecasts
- Agreement on next steps

# MASTER PLAN PROCESS





### WHY DO WE MASTER PLAN AIRPORTS?

The Master Plan is a **20-year plan** to understand the needs of current and future users of the airport. It is important to ensure:

- safe and orderly development
- reflective of the community's values and goals
- through a purposeful, inclusive, and educational process

# KEY PARTNERS

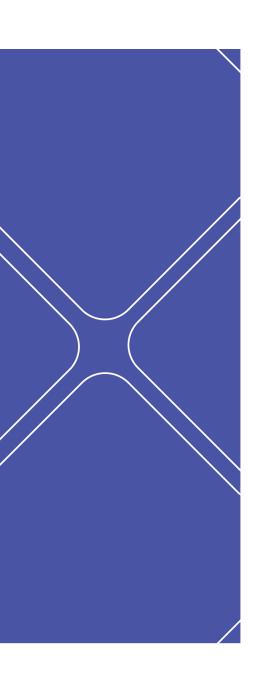
Federal Aviation Administration (FAA)

Massachusetts Department of Transportation (MassDOT), Aeronautics Division

City of Beverly, Airport Sponsor

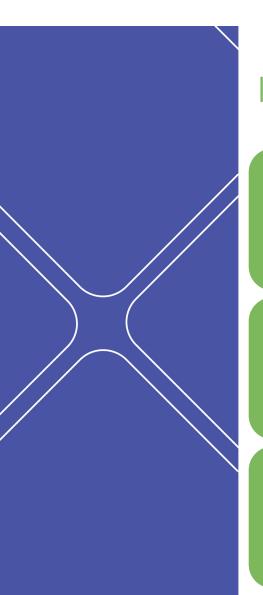
**Airport Commission** 

Planning Advisory Committee (PAC)



### PARTNER ROLES

- This is the Airport's Master Plan!
- Airport Master Plan
  - Recommended by FAA and MassDOT
  - FAA does not approve Master Plan
  - FAA approves the forecast
  - FAA and MassDOT approve ALP
  - FAA and MassDOT will ultimately endorse projects (following Master Plan and during annual CIP process)
- Airport Layout Plan (ALP)
  - Airport Commission must keep it current
  - Airport development must be consistent with the ALP



## KEY FEATURES

Planning is not prejudicial

- FAA/MassDOT mandates against predetermined outcomes
- The plan must be based on current conditions, community input, and forecasts

Master Plan Inclusions

- Establish future facility needs
- Measure aviation demand
- Create the Airport Layout Plan set
- Identify funding opportunities and strategies
- Identify compliance issues/recommendations

Master Plan Exclusions

- Marketing strategies or management of the airport
- · Formal business planning





#### BE A PART OF THE PLAN!

PLEASE TAKE A SHORT SURVEY ABOUT BVY



THE BEVERLY REGIONAL AIRPORT (BVY) HAS STARTED AN AIRPORT MASTER PLAN PROCESS THAT WILL GUIDE BVY THROUGH ITS NEXT 20 YEARS OF DEVELOPMENT. INPUT IS BEING SOLICITED FROM BASED AIRCRAFT OWNERS, TENANTS, AND OTHER AIRPORT USERS TO HELP ESTABLISH THE EXISTING AND FUTURE NEEDS OF THE AIRPORT.

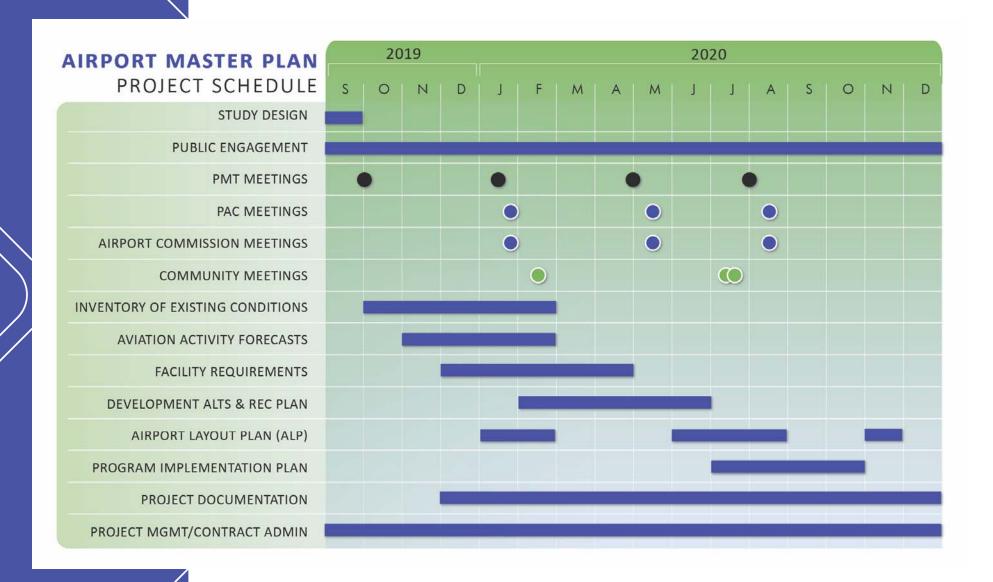
#### **BVY APPRECIATES YOUR INPUT!**

TO LEARN MORE ABOUT THE MASTER PLAN PROJECT, PLEASE GO TO WWW.BEVERLYAIRPORT.COM

## COMMUNITY OUTREACH

- Planning Advisory Committee
- Stakeholder/Neighborhood Meetings
- User and business surveys
- Social media updates
- Media releases
- Local Government briefings
- FAA/MassDOT collaboration
- Project website:

www. beverlyairport.com



# PAC ROLE AND RESPONSIBILITIES



#### The PAC functions best when it:

- Acts as a conduit for citizens, users & tenants to access accurate and timely information
- Provides focused feedback on key elements of the Master Plan working papers and findings
- Thinks critically through the key issues
- Shares varied perspectives on the future of the airport
- Serves in an advisory capacity to the Airport Commission

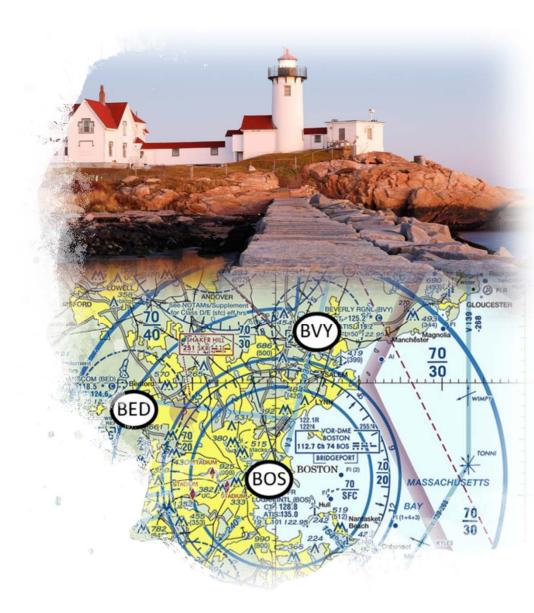
# AIRPORT INVENTORY



# SERVING THE NORTH SHORE

- Established in 1928
- Operated by the U.S. Navy during World War II (Naval Auxiliary Air Facility)
- Decommissioned in 1945 and returned to the City of Beverly in 1950
- Roles:
  - o FAA NPIAS: General Aviation Regional Reliever
  - MassDOT MSASP: Corporate/Business Airport
- Governed by the Beverly Airport Commission appointed by the Mayor of Beverly
- BVY serves a primary role in regional economic activities, connected to state and national economies
  - Total Jobs (direct/indirect) = 269
  - Total Annual Payroll = \$11.6 M
  - o Total Annual Economic Output = \$34.3 M

(2019 Massachusetts Airport Economic Impact Study)





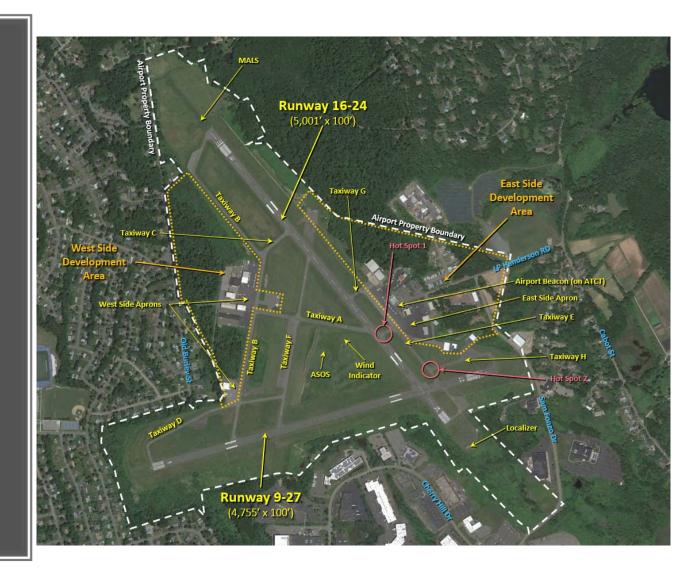
# BEVERLY REGIONAL AIRPORT

- Located in *three* jurisdictions: City of Beverly,
   Town of Danvers and the
   Town of Wenham
- 470 acres
- Services: FBO, Flight
   Training, Aircraft
   Management Tie-Downs,
   Hangars, MRO
- 105 based aircraft
- 66,949 annual operations
- Air Traffic Control Tower hours: 0700-2100
- Per the 2019 Statewide Economic Impact Study, BVY's impact is \$34,300,000

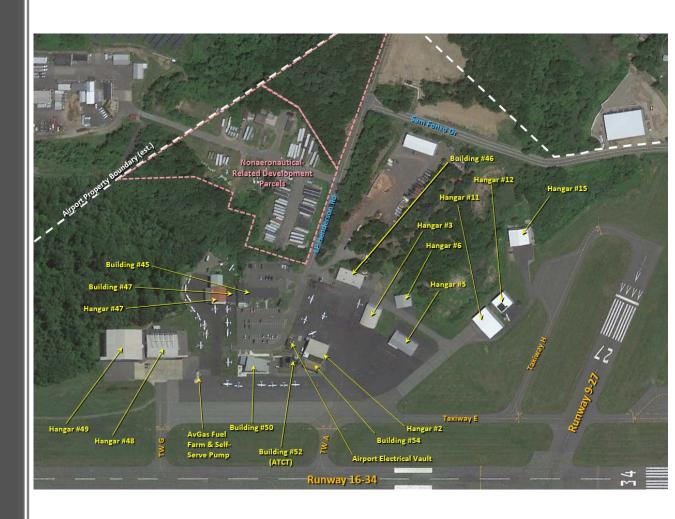
## SURROUNDING AIRPORTS



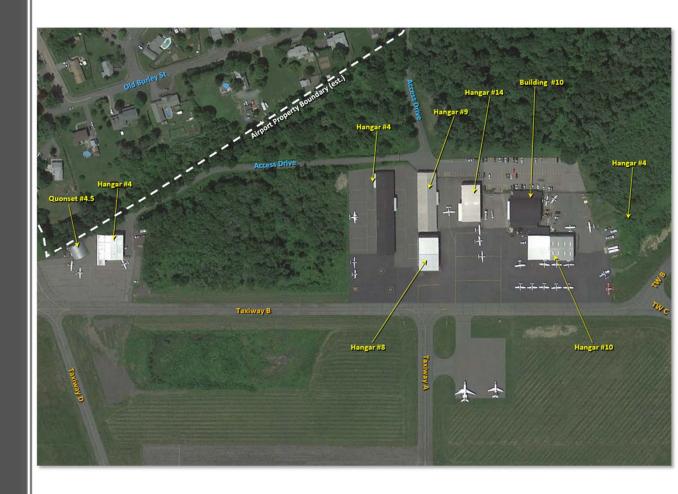
# AIRSIDE INVENTORY

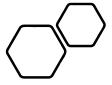


## LANDSIDE INVENTORY (East Side)



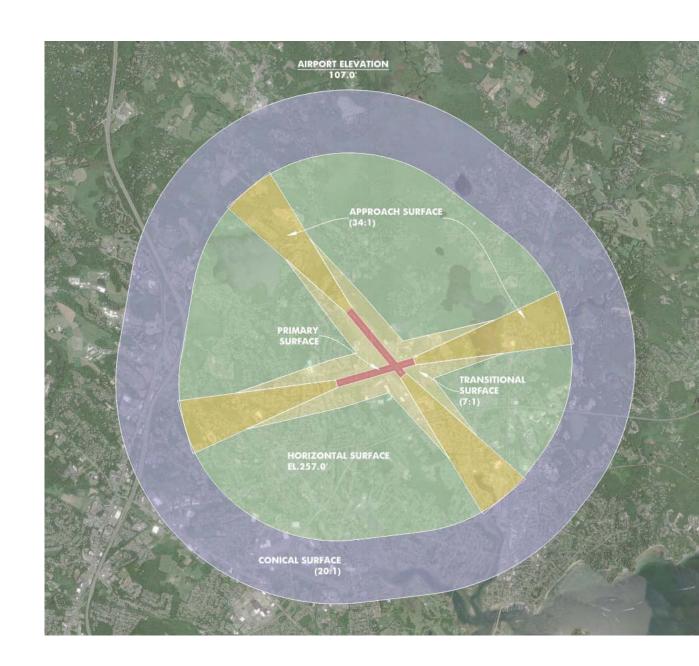
## LANDSIDE INVENTORY (West Side)





# AIRPORT AIRSPACE

- Federally-Mandated Requirements
  - o 14 CFR Part 77
  - o Airport Design
  - o TERPS
- Help ensure safety of aircraft in the air and people/structures on the ground



# AVIATION ACTIVITY FORECASTS



## BVY MARKET AREA

Beverly

**Boxford** 

**Burlington** 

Chelsea

**Danvers** 

**Essex** 

**Everett** 

Georgetown

Gloucester

Groveland

Hamilton

**Ipswich** 

Lexington

Lynn

Lynnfield

Malden

Manchesterby-the Sea

Marblehead

Medford

Melrose

Middleton

Nahant

Newbury

Newburyport

**North Andover** 

**North Reading** 

Reading

Revere

Rowley

Salem

• Stoneham

Topsfield

Wakefield

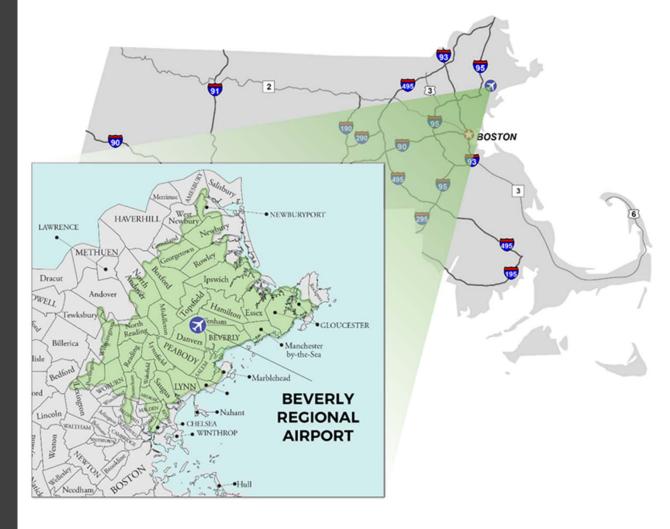
West Newbury

Wenham

Wilmington

Winchester

• Woburn



# FORECAST CONSIDERATIONS

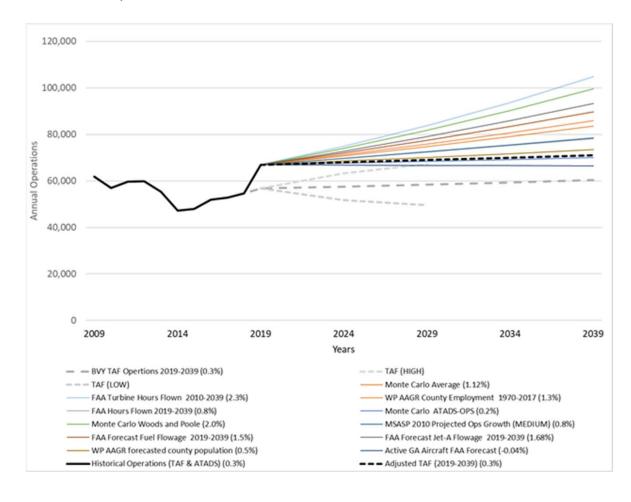
- National General Aviation trends
  - Business Use
  - General Aviation Piston Operators
- Regional trends
  - Population
  - Employment
  - Personal Income
  - Economic Developments
- FAA Terminal Area Forecast (TAF)



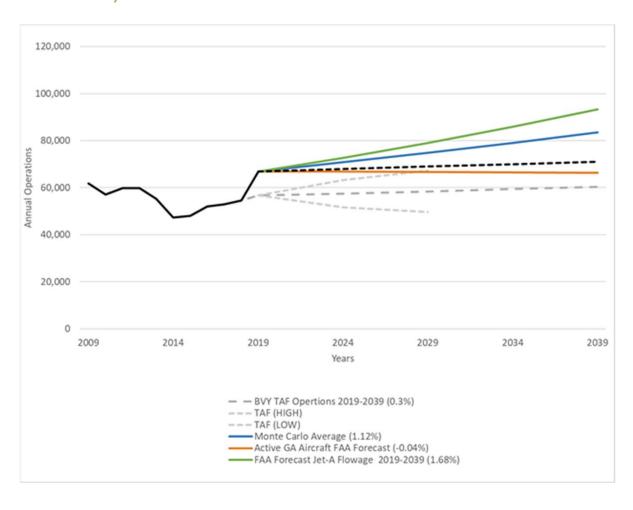
## ESSEX COUNTY SOCIOECONOMIC DATA

			Per Capita
Year	Population	<b>Employment</b>	Personal Income
Historical			
2000	725,030	390.460	\$38,118
2010	745,690	402,260	\$51,883
2016	779,020	461,140	\$61,442
2017	783,250	470,630	\$63,640
CAGR (2000-2017)	.5%	1.1%	3.1%
Projected			
2020	797,760	488,580	\$70,521
2025	822,140	515,760	\$86,579
2030	845,920	543,050	\$110,002
2040	884,250	595,030	\$180,259
CAGR (2020-2040)	.5%	1.0%	5.1%
Massachusetts			
CAGR (2010-2040)	.5%	1.2%	1.2%
United States			
CAGR (2010-2050)	.8%	1.1%	1.5%

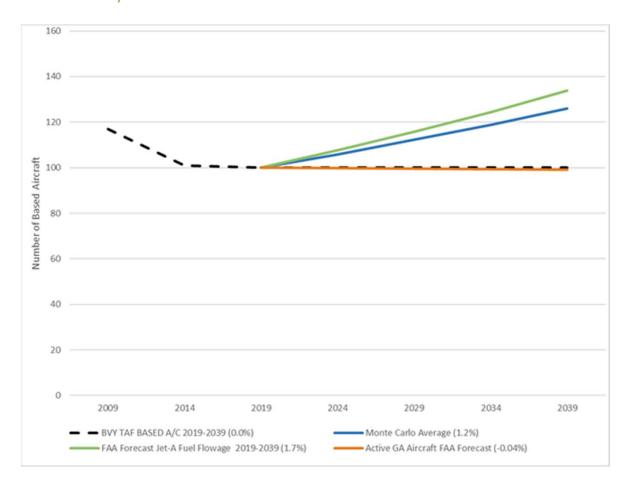
# OPERATIONS FORECASTS – ALL (2018-2038)

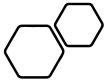


# PREFERRED OPERATIONS FORECAST (2018-2038)



# BASED AIRCRAFT FORECAST (2018-2038)



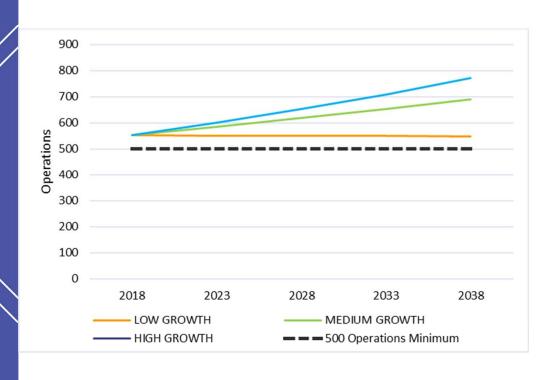


## CRITICAL DESIGN AIRCRAFT

- Airports should be designed to meet the needs and requirements of the aircraft that operate at them
- FAA AC 150/5000-17, Critical Aircraft and Regular Use Determination, provides for an airport's design be based on the most demanding or critical aircraft that operates regularly at that airport (500 annual operations or takeoffs/landings)
- At BVY, the Dassault Falcon (B-II) is the current critical aircraft as identified on the BVY ALP



# ANNUAL OPERATIONS OF C-II AIRCRAFT & ABOVE (2018-2038)



#### Key considerations:

- Application of the FAA AC
- Prevailing industry and regional trends toward greater use of business jet aircraft
- Anticipated activity levels at BVY

It is recommended that future airport facilities be designed to accommodate the Challenger 300 (C-II) or similar aircraft as the critical aircraft

## CRITICAL DESIGN AIRCRAFT

### Historical BVY FAA TFMSC Data

Table 3-10: Beverly Regional Airport Recent TFMSC Counts

1
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1
1

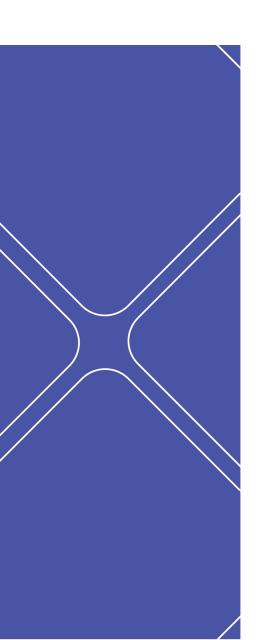


Source: FAA TFMSC

- Recommended ARC = C-II
- Current BVY FAA TFMSC Data (through 10/2019) = 549 operations
- BVY currently has a based Global Express, a Challenger 300, and a G-V

# NEXT STEPS



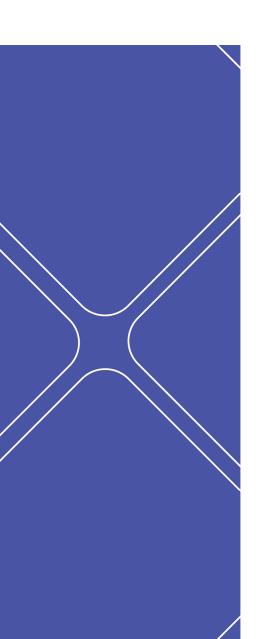


### PAC HOMEWORK

- Review and comment on Chapters 1 and 2 by *January* 31, 2020
- Chapters and presentation will be available online January 17, 2020 at <u>www.beverlyairport.com</u> (see Master Plan tab)
- Submit comments to:

### jim.miklas@jviation.com

 Chapter 3 will be posted (with email link) for review and comment once FAA review is complete



## UPCOMING WORK EFFORT

- FAA review and approval of Chapter 3 Forecasts
- Final edits to Chapters 1, 2 and 3
- Community Outreach efforts
- Development of Facility Requirements and Alternatives Chapters



# THANK YOU!

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