

Environmental Justice Fact Sheet

Massachusetts Port Authority, Logan Airport, One Harborside Drive, East Boston Comprehensive Plan Approval (CPA) application

Who they are?

The Massachusetts Port Authority (Massport) owns and operates Logan International Airport (Logan), located at One Harborside Drive in East Boston. Logan, a 2,400 acre facility, is a full-service airport, which accommodates a wide range of aircraft providing domestic and international passenger transport to just over 30 million passengers annually, air cargo handling, and general aviation. Logan consists of over 50 buildings, six runways, adjoining taxiways, a cooling/heating plant (CHP) that houses the largest emission units, and many ancillary facilities. The complex employs over 16,000 people and houses numerous tenant businesses.

Massport's Logan airport facility operates in accordance with a Title V operating permit issued by the Massachusetts Department of Environmental Protection (MassDEP). The Title V operating program is a federal United States Environmental Protection Agency (EPA) air permit program for facilities with potential air emissions equal to or above the major source permitting threshold levels. The EPA has given the authority for these Title V operating permits to the MassDEP.

What they propose?

Massport is proposing to replace a boiler at the Logan central cooling/heating plant (CHP). The CHP consists of three (3) natural gas and fuel oil fired boilers. The CHP provides steam, high temperature hot water and chilled water to the four airport terminals, the air traffic control tower, and the garages. Massport plans to remove one of the existing boilers and to replace it with a similarly sized boiler, which will also be natural gas and fuel oil fired. This boiler replacement project is being undertaken to replace aging equipment and will improve efficiency and energy consumption.

The boiler upgrade project will require the submittal of a non-major comprehensive plan approval (CPA) permit application to the MassDEP in accordance with the Massachusetts regulations under 310 CMR 7.02. The CPA forms will be prepared and submitted electronically via the MassDEP ePLACE portal. This permit application also includes the proposed project description; monitoring, testing, recordkeeping, and reporting requirements to ensure that the boiler will operate in compliance with applicable regulations and emission limits; a regulatory review; and a Best Available Control Technology ("BACT") analysis. The Massachusetts Environmental Policy Act (MEPA) was reviewed, and the project was found not to trigger the filing of an Environmental Notification Form (ENF). As part of the federal regulatory review, the application demonstrates compliance with the federal New Source Review (NSR) Program, which is a preconstruction permitting program serving to establish air pollution emission limitations on major sources. NSR includes two primary permitting programs which are each addressed in the permit application, the Prevention of Significant Deterioration of Air Quality (PSD) and Nonattainment NSR (NNSR). This project also demonstrates compliance with the National Ambient Air Quality Standards (NAAQS) by performing air dispersion modelling to look at the new boiler and other CHP sources.

The Massport Logan Facility will continue to operate as a major source of air emissions under the Title V operating permit. Facilities that have Title V Operating permits are required to submit periodic permit renewal applications to incorporate changes made at a facility since the last renewal application so the new boiler will then be added to the Title V operating permit.

What air emissions are generated?

As a result of the boiler replacement project, there will be a decrease in the potential air emissions from the Facility as the newly installed boiler will be more efficient and lower emitting than the existing boiler that is being replaced. The air emissions for this project are associated with the combustion of the fuel to operate the boiler. The criteria pollutants emitted from fuel combustion include nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂), volatile organic compounds (VOCs), and particulate matter (PM), both PM less than or equal to 10 microns in diameter (PM₁₀) and particulate matter less than or equal to 2.5 microns in diameter (PM_{2.5}).

Public Involvement

MassDEP will review the CPA permit application from Massport and will consider public input in the process. Upon completion of the technical review of this proposed project, MassDEP will issue a proposed decision for the 30-day public comment period. During this period, anyone may submit comments to the MassDEP about the draft decision.

Any questions or comments pertaining to the air permit for this project should be directed to Susan McConnell, at the MassDEP (Susan.McConnell@mass.gov).

Environmental Justice

The following 'Block Group' Environmental Justice (EJ) locations were identified within 1-mile of the proposed project site.

EJ communities were identified using the Massachusetts Executive Office of Energy and Environmental Affairs ("EEA") interactive mapping system: <https://www.mass.gov/info-details/environmental-justice-populations-in-massachusetts>.

Figure 1 - Map of Environmental Justice Block Groups within 1-mile

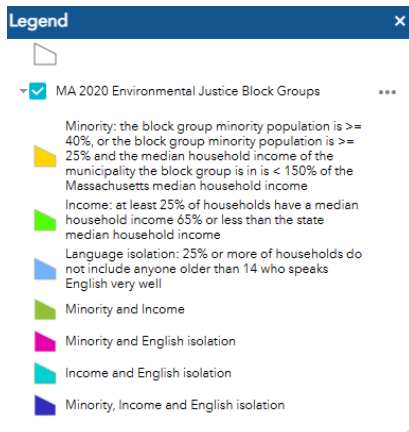
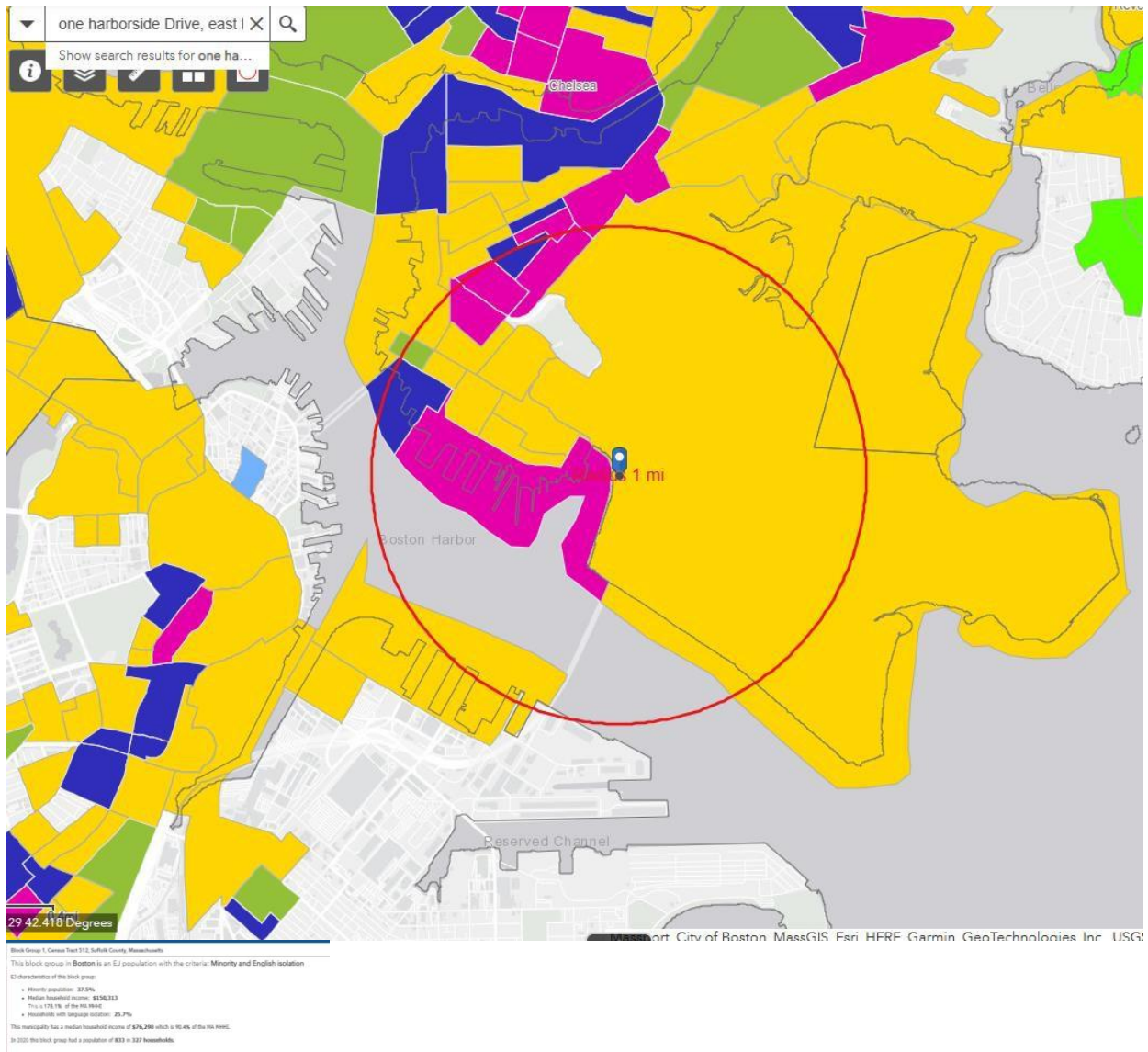


Figure 2 - Site Location: Massport's Logan Airport

