



Commonwealth of Massachusetts  
Executive Office of Energy & Environmental Affairs

SCANNED

File

## Department of Environmental Protection

Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

DEVAL L. PATRICK  
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Commissioner

DEC 16 2013

**CERTIFIED MAIL**

7013 0600 0002 3013 1816

Massachusetts Electric Co. dba National Grid  
40 Sylvan Road  
Waltham, MA 02451

RE: **MALDEN**  
Boston Gas Company Malden Plant  
100 Commercial Street  
**RTN 3-0000362**  
Permit # W007378  
**PERMIT EXPIRATION DATE**

Attn: Ms. Michele V. Leone

Dear Ms. Leone:

This correspondence serves as notification that your presumptively approved **Tier IB Permit Extension** will expire on **December 28, 2015**. This expiration date has been established by the Massachusetts Department of Environmental Protection (MassDEP) pursuant to 310 CMR 40.0751.

If you have any questions, please contact the regional BWSC Permit Section Chief at the letterhead address or by calling the letterhead telephone number.

Very truly yours,

  
Joanne Fagan, Section Chief *SB*  
Brownfields/Permits  
Bureau of Waste Site Cleanup

cc: GZA GeoEnvironmental, Charles A. Lindberg (LSP), [charles.lindberg@gza.com](mailto:charles.lindberg@gza.com)

## DEP BWSC RAO LEVEL 1 AUDIT CHECKLIST

Disclaimer: This checklist is for use by DEP in reviewing Response Action Outcome (RAO) Statements, and may not be relied upon for any other purpose. This checklist is not a comprehensive list of RAO requirements, which are fully set forth in MGL c. 21E and 310 CMR 40.0000. Completion of this checklist by DEP does not constitute a final agency decision, and does not create any legal rights or relieve any party of obligations that exist pursuant to applicable laws.

RTN 3-0030990 Town Milton Street Address 73 Granite Avenue  
 Date RAO Rcvd 5/28/2013 Date Screened 1/6/2014

### I. SITE CONCERNS

#### A. Air

1. Applicable GW-2 standard exceeded @ residence/school with no soil gas/indoor air sampling
2. Site contaminants impacting indoor air

#### B. Drinking Water/Groundwater

1. More than 0.5" NAPL observed in any monitoring well
2. Site within potential drinking water source area (PDWSA)
3. Site located within IWPA/mapped Zone II
4. Private/Non-municipal public well(s) (i.e. TNC, NTNC) located within 500 feet of site
5. Municipal well(s) located within 1000 feet of site
6. Private well contaminated as a result of site, still in use (no filter, no public water, etc.)
7. Public water supply contaminated as a result of site, no filters or other mitigation.

#### C. Contaminated Soil At a School or Residence

1. EPC in S-1 soil exceeds Method 1 Standard
2. Bioaccumulating compounds (i.e. Hg, Pb, PCBs, etc.) detected less than 1 foot dee
3. IH compounds (arsenic, cadmium, chrome VI, cyanide) detected less than 1 foot dee

#### D. Environmental Concerns

1. Site within 500 feet of surface water and/or wetlands
2. Endangered species habitat, ACEC and/or certified vernal pool within 500 fee
3. Confirmed contamination of surface water, sediments and/or wetlands with site contaminant

#### E. Site Area Use - Check All That Apply

1. Industrial use or public Right of Way (no children likely to be present)
2. Commercial (limited presence of children)
3. School/Institution (pre-K through high school, not college/university)
4. Residential

**F. Released OHM (Primary Contaminant Type[s])**

1. Petroleum fuel oils (e.g. #2, #4, #6, JP-4, JP-8, kerosene, lube oil, MODF, etc)
2. Gasoline, waste oils, Aviation Fuel (AVGAS, Jet A, etc.)
3. Metals, coal tar, PCBs, pesticides/herbicides, asbestos, cyanide
4. Chlorinated solvents, perchlorate, or other organic compounds

**G. Site Complexity**

1. Co-mingled plumes (i.e., from different sources, one or more releases co-mingled)
2. Bedrock contamination

**II. TECHNICAL ADEQUACY****A. Remedial Response Actions:**

1. Documentation (BOL, HWM, etc.) of removal/treatment of contaminated soil was provide
2. Remediation waste properly managed (Air [95%], GW [permit], SW [NPDES])

**B. Source/Extent Investigations:**

1. History of OHM use/storage/disposal at the site included
2. Potential source(s) identified, characterized, or abated (septic leach field, floor drain, AST, etc
3. All migration pathways evaluated (soil, groundwater, surface water, air, sediment, food)
4. Extent of contamination defined in all media (including downgradient)
5. Potential or actual OHM analyzed for and/or evaluated (metals, VPH, VOCs, etc.)
6. Proper sample collection technique/preservation//holding times/surrogate recovery, etc.

**C. Risk Characterization:**

1. Correct risk characterization method used (relative to indoor air, surface water, sediment, etc
2. Background identified or characterized
3. All receptors accounted for (human, environmental) or AUL applied
4. Site activities and uses identified (current, future, any limitations that were assume
5. Exposure points identified (GW soil for all RC Methods, other media for Methods 2 3)
6. All exposure pathways identified and evaluated (inhalation, ingestion, dermal, etc.
7. Hot Spot(s) addressed, identified (as Hot Spot) and not added in to other EPCs
8. EPC calculation(s)/equations provided (including spatial and/or temporal, Hot Spots, etc.)
9. EPC properly calculated (maximum concentration, 75%/10x, upper confidence limit)
10. Soil/groundwater categories properly identified
11. Applicable soil and/or GW standards not exceeded (Method 1 or 2) or AUL applied
12. Characterization of Risk to Safety is included (all methods)
13. Method 3 Public Welfare Risk Characterization is included
14. Method 3 Environmental Risk Characterization – Stage 1 or 2 was completed, if applicab
15. Method 3 Human Health: Non-Cancer Risks < HI of 1, ELCR < than 1x10-5

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no

yes

no

no

?

no

yes

yes

yes

yes

yes

yes

yes

?

yes

yes

yes

yes

yes

yes

NA

yes

yes

yes

yes

yes

NA

NA

NA

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### III. Preliminary Response Action Type

1. Correct RAO Class was selected
2. RAO boundaries delineated and referenced to permanent landmarks or surveyed boundaries
3. Relationship of this RAO to other RAOs for the property has been defined
4. Data Usability Assessment (scien. valid defensible, precise, accurate, complete) is included
5. Data Representativeness Evaluation (adequate spatial and temporal data) is included

yes

yes

yes

yes

#### A. CLASS A - Permanent Solutions:

1. A background feasibility evaluation is included
2. A Permanent Solution has been achieved
3. All sources have been eliminated or controlled
4. Phase IV, Phase V, or Post-RAO OM, where required, were completed

yes

yes

yes

NA

#### A-1. CLASS A-1:

1. The level of OHM at the site has been reduced to background
2. Threats of Release Only: all TORs were eliminated, and a release of OHM has not occurred

#### A-2. CLASS A-2:

1. An AUL is not required to maintain a condition of No Significant Risk

yes

#### A-3. CLASS A-3:

1. An AUL has been implemented to maintain a condition of No Significant Risk
2. Groundwater or Soil OHM concentrations do not exceed UCLs

#### A-4. CLASS A-4:

1. An AUL has been implemented to maintain a condition of No Significant Risk
2. OHM in soil that exceeds UCLs is beneath engineered barrier or >15 feet below ground surface
3. UCL Feasibility Evaluation conducted and shows that achieving UCLs is not feasible