



Designated Substances Report Security Upgrades for Helicopter Bay, Building O-276, Ottawa International Airport 20 Airbus Private, Ottawa, Ontario

2018-07-26

**Environment, Health and Safety
Real Property Services
Public Services and Procurement Canada**

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1- Introduction

The Custodial Health and Safety Unit (CHSU) of Public Services and Procurement Canada (PSPC) was retained by Kostyantyn Frolov, Deputy Project Manager, PSPC Real Property Services to complete a site-specific Designated Substance Report (DSR) for the Security Upgrades in the Helicopter Bay in Building O-276 at the Ottawa International Airport.

The DSR scope of work included the assessment of all project areas for the presence of the eleven (11) Designated Substances as identified in the Ontario *Occupational Health and Safety Act*.

Designated Substances, as identified in the Ontario Regulation Ontario 490/09 "Designated Substances", as amended, under the Ontario *Occupational Health and Safety Act* are:

- Acrylonitrile;
- Arsenic;
- Asbestos (both friable and non-friable);
- Benzene;
- Coke Oven Emissions;
- Ethylene Oxide;
- Isocyanates;
- Lead;
- Mercury;
- Silica; and
- Vinyl Chloride.

Other Hazardous Materials, which are not classified as Designated Substances, but were included as part of the DSR scope of work include:

- Polychlorinated Biphenyls (PCBs); and
- Halocarbons.

2- Regulatory Requirements

According *Canada Labour Code* under Part II, Section 124 every employer shall ensure that the health and safety at work of every person employed by the employer is protected. Furthermore, Section 125(1) (z.14) of the *Canada Labour Code* stipulates that the employer, to the extent that the employer controls the activity, will take all reasonable care to ensure that all persons granted access to the work place, other than the employer's employees, are informed of every known or foreseeable health and safety hazard to which they are likely to be exposed in the work place.

A DSR is required to meet the requirements of Section 30 of the *Ontario Occupational Health and Safety Act, Revised Statutes of Ontario, 1990, Chapter O.1*. By having a DSR completed, the Project Manager will be able to inform his or her employees, contractors, and tenants of any designated substances that may be present and possibly disturbed throughout the duration of the project. The *Ontario Occupational Health and Safety Act* also requires the DSR in order to identify designated substances that may be present within the project area. Polychlorinated Biphenyls (PCBs) and halocarbons have also been considered in order to identify the need to comply with appropriate Environmental legislation.

3- Project Description

The scope of the renovation project that is the subject of this DSR is to install security equipment, cabling and conduit in Building O 276 at the Ottawa International Airport. The work will include installing equipment on the roof and making small holes in drywall.

4- Methodology

This DSR report was prepared by performing a desktop review of the scope of work and past DSRs for the building. A site visit and sampling were not deemed necessary to complete this DSR.

5- Findings

6-1 Acrylonitrile

Not identified in the project area.

6-2 Arsenic

Not identified in the project area.

6-3 Asbestos

Roofing materials have been sampled for past projects, and confirmed not to contain asbestos¹².

Drywall joint compound has been sampled by PSPC in past projects and confirmed not to contain asbestos³⁴⁵.

Based on our understanding of the project, other building materials will not be disturbed.

6-4 Benzene

Not identified in the project areas.

6-5 Coke Oven Emissions

Not identified in the project areas.

6-6 Ethylene Oxide

Not identified in the project areas.

6-7 Isocyanates

Not identified in the project areas.

6-8 Lead

Wall paints are assumed to be lead based.

6-9 Mercury

Mercury is present within the fluorescent light tubes in the project area, but will not be disturbed during the project.

6-10 Silica

Free crystalline silica is present in drywall, ceiling tiles and concrete building materials in the project area.

¹ PSPC (2015). Designated Substance Specifications for O-276 Helicopter Bay Expansion Project

² DST Consulting Engineers (2016). Project-Specific Designated Substance Survey, Roof and Siding Replacement Project, Buildings T-58 and O-276, 200 Comet Private and 20 Airbus Private, Ottawa, Ontario. DST File No.: GV-OT-027536.

³ PSPC (2006). Designated Substance Specifications O-276 Flight Simulator Building Project no 498829

⁴ PSPC (2010). Designated Substance Specifications O-276 Classroom and Office Fit Up Project

⁵ PSPC (2015). Designated Substance Report O-276 Helicopter Bay Expansion Project

6-11 Vinyl Chloride

Not identified in the project areas.

6-12 Polychlorinated Biphenyls (PCBs)

PCBs may be present in light ballasts associated with the fluorescent light fixtures within the project area, but will not be disturbed during the project.

6-13 Halocarbons

Not identified in the project areas.

6- Conclusions and Recommendations

7-2 Lead

Ontario Ministry of Labour (MoL) has published the document entitled "*Guideline: Lead on Construction Projects*". This document classifies all disturbances of lead-containing materials as Type 1, Type 2a, Type 2b, Type 3a or Type 3b work, based on presumed airborne concentrations of lead generated during the work each of which will have defined work practices. Although this document is not a regulation, Ministry of Labour Inspectors use it as guidance during site inspections.

7-4 Silica

The Occupational Health and Safety Branch of the Ontario Ministry of Labour have published the document entitled "*Guideline: Silica on Construction Projects*". This document classifies the disturbance of materials containing silica as Type 1, Type 2 or Type 3 work, and assigns different levels of respiratory protection and work procedures for each classification. These procedures should be followed when performing work involving the disturbance of silica-containing materials.

7- Limitation of report




This DSR was based on a desktop review of the scope of the renovation project and past designated substance reports. Should any additional designated substances or hazardous materials be encountered in the course of any demolition or renovation work, work shall be stopped, precautionary measures taken, and the Departmental Representative notified immediately. Do not proceed until written instructions have been received.

This final report titled:

**Security Upgrades for Helicopter Bay,
Building O-276, Ottawa International Airport
20 Airbus Private, Ottawa, Ontario**

2018-07-26

has been reviewed by Member(s) in accordance with
the following Environmental Services (ES) Quality Management System criteria:

Criteria	Reviewer Signature/Date:
EHS-CHSU Project Leader Meets quality for clarity, grammar and tone	 Robert Galdins / 2018-07-26
EHS-CHSU Senior Technical Advisor or Equivalent Meets quality for technical content and methodology Meets quality for clarity, grammar and tone Approval of recommendations	 Olivier Brazeau / 2018-07-30
EHS-CHSU Client Advisor, or Equivalent Verify On time, on scope, and on budget	 El Houcine Faouzi / 2018-07-30

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