

PART 1 - GENERAL

1.1 Cleanroom Areas

- .1 Cleanroom definition
 - .1 The CSA-DFL maintains its testing facility laboratories to a Standard ISO 14644 – Class 7. Maintenance of a Class 7 Clean Room requires that the particles count does not exceed a total of 10,000 particles per cubic foot of a size of 0.5 microns and larger, or 700 particles per cubic foot of a size of 5.0 microns and larger, based on a one minute measurement.

Cleanrooms are defined as any and all areas downstream of the air-shower stations at various parts of the building. Special covers, gowns and procedures apply. Air shower identified on drawings
 - .2 The Cleaning Contractor and their staff must be briefed by CSA-DFL designated representative before they will be allowed to clean in the cleanroom areas.
 - .1 The Cleaning Contractor shall be responsible for ensuring that any new staff receives the proper briefing prior to starting their first shift.

1.2 Equipment

- .1 The vacuum cleaner used in this area will be of the industrial canister type, wet and dry, equipped with a three prong grounded plug; non-metallic floor tools and a 0.05-micron (High Efficiency Particle Arrestance-HEPA) filter. The filter is to be cleaned prior to each operation.
- .2 The floor scrubber used in this area will be an Advance SC1500 stand on scrubber with a 20 inch cleaning path. Only those persons that have been given proper training will be allowed to operate this unit. When finished with the machine, it will be placed in its designated room for storage.
- .3 At completion of contract, all equipment provided by CSA-DFL, shall be returned to CSA-DFL, in similar condition, save for regular wear and tear.

PART 2 - EXECUTION

2.1 Cleanroom & Laboratory Cleaning

- .1 General Cleaning Operations
 - .1 All cleaning operations inside the cleanrooms will be performed between the hours of 06:30 and 1530.
 - .2 The Cleaning Contractor's staff shall use extreme care when performing cleaning operations to ensure that they do not damage delicate equipment.
 - .3 **CLEANING STAFF MUST NOT ENTER ROPED OFF AREAS**
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WITHOUT PERMISSION FROM THE CSA-DFL DESIGNATED REPRESENTATIVE.

- .4 Cleaning staff shall not clean or touch spacecraft test equipment.
 - .5 Damp mopping only by using a mop, well wrung out in clean water to avoid any seepage under the equipment or between the tiles. Water is to be changed frequently during each operation and mops are to be washed and well rinsed on completion of work. DO NOT damp mop around sensitive equipment. Use HEPA vacuum in cleanroom only.
 - .6 Dust control method or vacuum is the method to be used while sweeping floors.
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- .2 Air Showers
 - .1 Vacuum and damp mop floors daily.
 - .2 Clean door glass and stainless steel daily - once during the morning and once in the afternoon.
 - .3 Clean walls and doorframes daily.
 - .3 Contamination Control Dry Mats (Sticky mats)
 - .1 Remove one layer from contamination control mat daily or as required whenever the mats lose its stickiness, whichever comes first. Never leave the mat longer than one week without removing the top layer.
 - .4 Shoe Cleaner Service
 - .1 Check bags every week.
 - .2 Clean outside housing daily.
 - .5 Floors
 - .1 Resilient Floors
 - .1 Remove all foreign residues daily.
 - .2 Scrub all floors twice weekly (Monday and Thursday), using automatic scrubber.
 - .3 Use mop to clean baseboards and all corners.
 - .2 Steel and Finished Concrete Floors
 - .1 Vacuum and wash entire floor area twice weekly (Monday and Thursday) paying particular attention to the areas around the bases of equipment, baseboards and corners.
 - .6 Miscellaneous
 - .1 Remove dust from all electrical boxes daily.
 - .2 Elevators and loading areas to be spot cleaned daily.
 - .3 Walls to be damp mopped semi-annually to be scheduled by the CSA-DFL designated representative.
 - .4 Loading Docks
 - .1 Apply an absorbent compound (supplied by client) to oil and grease spills and remove as quickly as possible.
 - .2 Remove accumulated slush and water on floors in entrances and trucking areas on a continual basis during inclement weather.
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- .3 Sweep or dry mop daily
- .4 Scrub floors twice weekly (Monday and Thursday) with automatic scrubber.
- .5 Glass Partitions
 - .1 Clean inside of glass partitions and/or glass panels in partitions including those partitions overlooking Bays 2 and 3 twice a year to be scheduled by the CSA-DFL designated representative.
- .7 Furniture and Fixtures
 - .1 Dust vertical and horizontal surfaces daily.
 - .2 Vacuum tops of lockers, storage cabinets, and bases of freestanding screens and interior of public clothes closets (if applicable) Friday.
- .8 Waste Receptacles & Recycle Bins
 - .1 Empty waste receptacles; recycle bins and garbage cans daily or more frequently if required.
- .9 Doors and Door Frames etc.
 - .1 Daily
 - .1 Clean finger marks from doors and doorframes.
 - .2 Vacuum door grills, doors and doorframes.
 - .2 Monthly (last week of each month)
 - .1 Clean metal push bars, kick and hand plates using the appropriate cleaner.
 - .2 Wash doors, doorframes and door grills.
- .10 Overhead Doors
 - .1 Dust and spot clean both sides of doors monthly.
 - .2 Wash both sides of doors annually to be executed in July.

End of Section
