**Fire Risk Assessment**

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| Fire Risk Assessment of: | **Bay 1** Engineering and Moulding |
| Report Completed By: | Pat Devaney |
| Date: | 8th January 2014 |

**Introduction**

I have reviewed the Fire Risk Assessment of the above area within Plastica ltd on the above date and I draw your attention to the results detailed below.

This part of the factory was built in 1984, consisting of two bays of the existing four bay factory, plus the office block. It is traditional brick and block built, with metal cladding attached to a metal framework. The ground floor is reinforced concrete with mezzanine floor above, this bay measures 24 metres x 72 metres, the height is 6 metres to the eaves.

This bay has a double pitched roof constructed of industrial steel, powder coated, corrugated sheeting.

**Summary of significant Hazards.**

1. Both departments have Reznor gas heaters hung from the ceiling.
2. Both departments have various quantities of different oils.
3. Both departments have powerful electrical machinery.
4. Both departments store various pressurised canned products & glues which are flammable.
5. Both departments have electric hot air blowers and hot welding paddles.
6. Moulding department have 12k propane gas bottle.
7. Engineering department has a 30k Argon gas bottle.
8. Both departments have various electric hand tools.

**People Affected**

Should this bay fall victim to a fire it would affect all staff on site, it is unlikely to affect neighbouring businesses or estates.

**Preventative Measures**

1. Gas heaters are inspected and certified annually.
2. Stored with care and safely.
3. Should only be used within manufacturer’s specifications and switched off when not in use.
4. Store safely away from heat source. Possibly in fire proof cabinets.
5. Use with care and switch off when not in use.
6. Store carefully, turn off gas when not in use, remove from building in a fire situation.
7. Store carefully, turn off gas when not in use, remove from building in a fire situation.
8. P.A. test all electric hand tools annually.

**Protective measures**

An automatic fire detection system is likely to provide early warning of a fire developing and permit early intervention...

Fire extinguishers are provided to allow early intervention, however staff training must be given to allow competent use of the extinguishers.

**Measures to allow Evacuation**

The automatic Fire Alarm System should allow early warning to facilitate early evacuation.

This Bay 1 has all the required emergency lighting.

This area has sufficient fire escape doors for the number of staff working within it.

**Recommended Actions to Be Implemented by Directors**

1. Ensure annual inspection.
2. Check adequate safe storage
3. Check correct use by staff.
4. Check correct storage. Possibly in fire proof cabinets.
5. Check correct use and safety procedures.
6. Check correct use and safety procedures.
7. Check correct use and safety procedures.
8. Check P.A. Tests are up to date.

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.**Recommended Timescales to Implement Aforementioned Actions.**

All 8 recommendations can be checked very quickly and should be carried out ASAP.

**Conclusion**

There are a number of ignition points within these 2 departments and a large amount of combustible material, but they are well run and tidy, I have no major concerns about fire safety at this time.

Completed by: Pat Devaney

Signed: …………………………………………………… Date: ………………………………….

Viewed By Edward Campbell-Salmon

Signed: …………………………………………………… Date: ………………………………….

Viewed By: Ian A Warne

Signed: …………………………………………………… Date: ………………………………….