

Standard Operating Procedures		SOP Ref: OP11-DCL-02	OP11-DCL-02 Temperature Checks	
Approved & Issued by:			Written by:	Stuart McNish
Operational Area:	BKP Environmental Romsey			
Title:	Temperature Checks			

Relevant Docs & Legislation

Environmental permit & EMS for BKP Waste & recycling Ltd - EPR/FP3599LH

FPP – FPP V4 – BKP Environmental Ltd, Romsey

Appropriate Measures for Permitted Facilities

HSG 71

HSG 51

CIRIA736

1. Activity

This activity involves the walk round checks and monitoring completed with an infrared thermal imaging camera. This is completed as part of manager daily walk-round checks for both areas of the site. The thermal imaging camera is available in the transfer station office for additional temperature checks as directed upon waste receipt by the technical assessor and technical form. These checks are completed to ensure any hot spots of materials that are self-heating are identified and quarantined.

Any material that is identified should be safely removed to the quarantine area and if necessary then fire fighting measures may need to be employed.

The general manager / TCM covering in their absence is responsible for completing these checks daily.

2. Persons at Risk

- Operator
- Other yard operatives
- Driver
- General public

This SOP is subject to review as soon as reasonably practicable in the event of the occurrence of any incident, or series of incidents, related to this activity; at a date that the Senior Management Team considers appropriate OR in any event, NOT LATER THAN 2 YEARS from the date of issue.

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- Contractors and visitors
- Shared Site Occupancy

3. Hazards

- Inclement weather: ice, snow, rain or fog.
- Slips, trips, falls
- Fire caused by self-heating material
- Exposure to chemicals within the waste material
- Working at height
- Vehicle movements
- Forklift truck movements

4. Procedures

a) You as the operator

As part of the walkround check all rows in both the transfer station and the LTP will be walked and inspected for signs of elevated temperatures to identify self-heating materials prior to them causing a fire.

A baseline temperature picture against empty steel / plastic drums stored in direct sunlight should be taken to indicate what the expected temperature of materials to me.

The temperature checks are simply conducted using the FLIR C3-X thermal camera or equivalent.



The FLIR C3-X compact thermal camera is an affordable, professional inspection tool for building, facilities maintenance, HVAC/R, electrical repair, and other troubleshooting applications. Featuring a thermal camera, visual inspection camera, and LED flashlight, the powerful FLIR C3-X makes it easy to identify hidden problems. Built-in FLIR Ignite™ cloud connectivity allows direct data transfer, storage, and backup, so images are always available on all your devices. The 3.5-inch integrated touchscreen is simple to use, so you can quickly inspect, document repairs, and share evidence with customers. With the FLIR C3-X in your pocket, you'll be ready anytime to find hot fuses, air leaks, plumbing issues, and more.

www.flir.com/C3-X

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All rows and walkways must be accessible to complete these checks. This is covered on the daily compliance check sheets (DCL-01a for transfer station and treatment plant). All rows and walkways must be walked using the camera to check containers for hot spots. The background reading will show ambient temperature and any thermal hot spots will appear white.

Drums stored in direct sunlight on sunny days will need to be accounted for as these will show slightly elevated temperatures. Further investigation may be required if there is uncertainty. This is why background empty drums on the same days must be used to determine if it is waste material or just sunlight.

Particular attention should be paid to the following materials which are of higher risk

- Rags / Wipes and Absorbents C/w Hydrocarbons – Lower Yard – Location 8
- WEEE storage areas – Indicated in the top yard
- Battery Storage Areas – Indicated in the top yard
- Lithium Battery Storage self-banded Metal Container – In top yard
- General Waste skip

Site chemists as part of acceptance checks complete temperature checks on rags and other materials that may self-heat as indicated by technical assessor at pre-acceptance stage.

Batteries & Rags must be checked upon receipt for signs of elevated temperatures.

Doing the checks upon receipt of material that have been identified as high risk eliminated the risk of putting them into a pile / storage with other combustible materials.

Results of the temperature monitoring is recorded on the daily compliance sheet for the respective areas of the site should no elevated temperatures be found. Please record average temperatures seen to allow data trends to be observed of what a typical temperature of identified higher risk materials is.

In the event of elevated temperature

If it is safe to do so remove the container to the quarantine area with FLT or mobile plant as designated on the site plan. Refer to nature of previous contents for guidance on best fire fighting agents to use and fire fighting measures. I.e. Do not fight lithium metal Battery fire with water. Use dry sand or Blue Extinguishers. Lithium battery safety is covered in a separate. SOP TS-ABTO-05 - Lithium Battery Safety & Management.

If container or it's contents ignite or show signs of thermal runaway then refer to emergency plan for contact details and next steps and contact the emergency services if the fire cannot be controlled with the use of extinguishers / water safely.

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NB: You must not proceed to sign this form if you feel you do not fully understand the methods and procedures outlined in this Standard Operating Procedure

Print: Sign: Date.....

Signed off by:

..... Director / Manager / Supervisor

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