

Garbage Incineration Guidance (For Reference)

Poster 043

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OBJECTIVE & PIC

Poster guidance to ensure Safe Operational checks and Vigilance to be carried during entire incineration Operation.

Incinerator to be operated under supervision of Certified Engineer and in accordance with makers Instructions. All engineers and Operators to be trained by Chief Engineer on Safe Incinerator Operation.

Do Not Open unless following done

- Sufficient cooling
- Door Limits Interlocks Functionals not Bypass
- Proper PPE Donned
- No Flame or ambers

Risk of Fire & Injury

A)

MAKERS INSTRUCTION AND COMPANY PROCEDURES TO BE ALWAYS FOLLOWED FOR SAFE INCINERATION
(Ref GP A1, Posters 01, 06)



BEFORE START OF INCINERATION

1. All alarms, trips, gauges, Charging Door/door safety interlocks and Fire Alarm for Incinerator level are always functional and never bypassed.
2. PPE is always donned by Operator.
3. Makers Instruction for correct Safe Incineration of garbage to be always followed.
4. Incinerated must be operated under supervision of Certified engineer duly trained by Chief Engineer for incineration as per makers instruction.
5. Incinerator not to be operated in Port Limits & in ECA. *Risk of Fines/Air Pollution/PSC detentions.*
6. Before opening garbage charging door, to ensure adequate cooling down is achieved. Also, operator to watch out for residual flame and unburned gas inside. *It may cause fire or personal injury due to backfire.*
7. When opening door, do not stand in front of opening in case of backfire. *It may cause person injury due to backfire.*
8. Start cooling fan for pre-purge. Only upon completion of pre-purge, ignition should start.
9. No flammable materials (waste contains oil, container contains oil) must be near incinerator. All such must be in sealed Fire-retardant container. *They may accidentally ignite due to hot part of incinerator & cause fire.*
10. Ensure old ash is removed for clear flow /internal circulation of air for garbage burning.
11. Ensure operation authorized by 2E/CE and supervised by certified engineer.

B) CHECKS BEFORE DOSING GARBAGE

1. Amount of garbage dosed in the Incinerator must be as per Makers instruction. (*Solid waste charge: Ref MEPC 244(66) and asper Makers*)
2. Solid wastes (Wood/paper/hard sludge/Food wastes/Plastics etc) to be charged only through the charger door and not Ash Collection door. *Loading through ash removal door, may cause incomplete incineration and /or damage the equipment and/or personal injury.*
3. None of the Prohibited items as per Poster GP06 (As per Makers instruction) must be charged to the incinerator. *This may cause Incinerator damage, Explosion, fire and Personal injury.*
4. Only equipped burner feed to be used for incineration. External/Manual feed of portable flame or gas oil or similar must NOT be used for aiding garbage burning. *It may cause person injury due to backfire.*
5. For dosage of garbage during sludge burning, Makers Incinerator guidance to be followed in cases of such design. *Risk of Personal Injury and Fire in case charge opened without checking as per makers instructions.*
6. Solid waste to be charged in batch as per Makers prescribed qty and procedure.

C) AFTER INCINERATION- DOOR OPENING

1. Before opening door, look through sight window to make sure that there are no residual flame/ ambers. *Risk of Personal Injury and Fire in case opened without checking.*
2. Do not open charging door or ash removal door until furnace is sufficiently cooled down and/ or as prescribed by Makers. (Note: Cooling fan continues for few hours after burner stop). *Opening without proper cooling may cause personal injury due to backfire.*
3. Ash Door must not be opened before cooling down and only when safety Interlocks allow such opening. Such interlocks must not be bypassed anytime. *Risk of Personal Injury and Fire.*
4. When opening door, do not stand in front of opening in case of backfire. *It may cause person injury due to backfire.*
5. Suitable PPE is always donned by Operator and added PPE items like face visor, gloves etc to be available near incinerator for ready use.
6. Ensure Proper scoops and receptacles (made of Fire & heat retardant material) is used for ash collection and ready near incinerator.
7. Ash to be stored in sealed Non-Flammable container and landed in subsequent port.
8. Funnel stack and Incinerator refractory to be checked for condition every 3Months to check for and avoid residues sticking to the refractory walls and Funnel uptakes.
9. GRB entry as relevant to categories incinerated & landed, to be entered in GRB along.

D) COMPANY SPECIFIC RESTRICTIONS (REF GP A1, POSTERS GP01, GP06)

1. Incineration Prohibited in Port Limits and ECA areas. Special permission required from port state and Office for Incinerator use in port. Such approvals (if given) is valid only for that port only. *Risk of Annex VI violation and PSC detentions.*
2. Plastics are prohibited for Incineration in Port Limits and ECA areas and only to be incinerated @ Open sea and design type approved for Plastic burning.
3. Ref GP06, items mentioned as Prohibited items, must never be Incinerated. *Risk of Incinerator damage, Explosion, fire and Personal injury.*