



FIRE DEPARTMENT

9 METROTECH CENTER

BROOKLYN, N.Y. 11201-3857

CERTIFICATE OF APPROVAL # 5527 THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE AND EXPIRES ON November 18, 2012

November 19, 2009

David E Reichard
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By order of Fire Commissioner, Nicholas Scoppetta and pursuant to Section FC112-01 of the New York City Fire Code of the Administrative Code, the following equipment or material may be acceptable for use provided the conditions outlined below are in full compliance.

Manufacturer: G-TEC Natural Gas System **Occupant:** .

Products: **Site Specific** one TB-125 natural gas torch booster for the jewelry torches at
31 West 47 St, New York, NY 10036

Pertinent Code Section: § 2609-01 of the New York City Fire Code effective July 1, 2008

Laboratory: CSA International

Test Report: No. 1046907 – last issue date March 19, 2007

CONDITIONS OF APPROVAL:

1. Prior to installation of the above referenced natural gas torch booster, plans must be filed with and accepted by New York City Department of Buildings(DOB). Be advised that an approved sprinkler system shall be installed as per requirement of New York City Department of Buildings. Additionally, a copy of DOB docketed (Stamped, numbered and dated) plans shall be transmitted to the Fire Department for review and approval.
2. After installation, the above referenced natural gas torch booster shall not be used until the required Fire Department use permit has been issued. Please call 718-999-2502 for additional information.

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3. In order to meet the requirements of Title 3 of the Rules of the City of New York, section 2609-01(e)(3), the G-TEC torch booster shall be equipped with a UL listed Conoflow ITT pressure regulator, part number GH10XT2500C. This regulator will restrict outlet pressure from the torch booster to a maximum of 15 psig and is to be supplied by G-TEC as part of the torch booster package. This regulator shall be directly mounted to the outlet bulkhead of the torch booster and before the UL listed combination flashback arrestor and backflow check valve.
4. For the jewelry torches operation, a UL listed combination flashback arrestor and backflow check valve shall be installed:
 - (A) On the oxygen supply line, between the final oxygen supply pressure regulator and each fuel consuming device.
 - (B) On the *natural gas* supply line, between the final *natural gas* supply pressure regulator and the fuel consuming devices.
5. The use of torch boosters shall comply with all applicable New York City Fire Code, Construction Codes, Electrical Code, rules and regulations, **including, but not limited to, § 2609-01 of the New York City Fire Code and NFPA 51 Standard.** Torch boosters are for indoor use only at a location acceptable to the Department of Buildings and Fire Department.
6. The operation of this equipment shall be under the supervision of a person holding a Certificate of Fitness from the Fire Department. Please call (718) 999-1998 to obtain detailed information on how to obtain Certificate of Fitness.
7. Hose and hose connections between torch booster to the jewelry torch, shall comply with CGA E-1. *Standard Connections for Regulator Outlets, Torches and Fitted Hose for Welding and Cutting Equipment.* The length of the hose/tubing shall be as short as practical but in no case exceeds eight (8) feet. Only approved/listed torch(es) can be used with the torch booster.
8. Torch booster shall be installed indoors in a well-ventilated area above ground level. The fan intakes and panel vents must be kept free of objects and materials that could restrict the flow of ventilation air. A minimum clearance of twelve (12) inches must be maintained around the fans and vent louvers for proper ventilation.
9. Torch booster should be installed away from high traffic areas. The space in which the G-TEC Natural Gas torch booster is installed shall be maintained at a minimum ambient temperature of 40°F.

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10. Permanent decal or label shall be on each torch booster indicating “ CAUTION - Excessive nuisance shutdowns should be reported to the manufacturer G-TEC. ”.
11. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the manufacturer.
12. Torch booster shall have secured and shall maintain all required approvals and shall meet all applicable Federal and State requirements. The use of this product shall be limited to the indicated intent and has not been acceptable for other uses or applications.
13. Torch boosters shall be CSA International Testing Laboratories listed and manufacturer G-Tec shall retain follow up services requirements of CSA International Testing Laboratories. CSA International Testing Laboratories’ listing requirements and safety limitations shall be complied with.
14. The Fire Department Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product, as represented, meets the standards as of the date of issuance.
15. Manufacturer’s installation, maintenance procedures and safety limitations shall be complied with. G-TEC will notify the end user annually of the required maintenance for the torch booster.
16. Only Department of Building approved and CSA International Testing Laboratories recommended piping shall be installed from the utility gas line to the torch booster. Up to 12 jewelry torches are allowed to connect to a model TB-60 torch booster. Up to 25 jewelry torches are allowed to connect to a model TB-125 torch booster.
17. The Fire Department reserves the right to withdraw this approval at any time in the event that there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of this resolution or as represented in your application.
18. The Fire Department's conditions of approval shall be enumerated in the installation/operation manuals and sales brochures which will be provided to New York City buyers, users and installers.
19. As the manufacturer of this equipment, you should be aware that any end users who fail to comply with the condition as outlined in the approval will be subject to enforcement action which may include fines and imprisonment.

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Any change in occupant's name or ownership, product name, product design, material of construction or model number of any product included on this certificate must be immediately reported to this Department in writing.

Very truly yours,



Anthony Hsueh
Senior Project Manager
Technology Management

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