

## CASE STUDY

### MediTrac<sup>®</sup> in a High-rise Building

- Saves Time
- Saves Money
- Increases Installation Options

**Product:** ½" MediTrac<sup>®</sup> Flexible Medical Gas Piping

**Location:** 737 N. Michigan Ave., Chicago, IL

#### Project Overview

Pediatric Dental Health Associates on the Magnificent Mile in Chicago needed to add nitrous oxide and oxygen in their 13th floor office to better serve their patients. Being on the 13th floor of a 42 story building posed many obstacles, particularly the use of a brazing torch in a building that is mandated as a flameless building. The facility was also one of the more difficult buildings for work and access - there was nowhere to stage materials so that all tools and materials had to be brought in and removed from the job site daily. Finally, no hot work was allowed without special approval from the building owners and the Chicago Fire Department, which could take weeks for approval. The initial estimate to complete the project was 40 hours over 6 days, plus the required 4 hours of fire watch each day. To eliminate all these issues, JPI MedGas proposed to use MediTrac<sup>®</sup> flexible medical gas piping to complete the project without ever bringing a torch on site.

#### Installation Overview

All the MediTrac<sup>®</sup> straight fittings were pre-installed to the medical gas outlets off-site and then bagged and sealed until ready for installation.

All of the work had to be done during non-working hours to prevent any interruptions in the dental practice. On the Saturday of the install, the team from JPI arrived on-site with the prefabricated outlets and the MediTrac<sup>®</sup> tubing. The outlets were installed into the wall with minimal sheetrock removal. The MediTrac<sup>®</sup> tubing was then run from the manifold room up into the ceiling where it split to run to the medical gas outlets in each of the two dental offices. The final connections were made and pressure tested and the sheetrock was replaced. All work was completed on a single Saturday while the office was closed with no hot work. Final paint and cleaning were completed on Sunday and the office resumed normal operations on Monday morning.

*No on-site brazing and fire watch required.*



*MediTrac<sup>®</sup> installation above finished ceiling.*

*(continued)*

## CASE STUDY

### MediTrac® in a High-rise Building

(continued from front)



MediTrac® connection to Dental Manifold.



1/2" MediTrac® Tees during Installation.

#### Labor Man Hours Estimated for Cleaned and Capped Copper

JPI estimated over 60-man hours to complete the installation with traditional materials because of the difficult working environment, required fire watch and site availability. JPI completed the installation of the MediTrac® system in a total of 12-man hours, including the pre-fabrication done off-site - without brazing and the need for a fire watch.

#### Summary

##### Summary of MediTrac® Materials:

150' 1/2" MediTrac® tube

2 - 1/2" MediTrac® Tees

6 - 1/2" MediTrac® straight fittings

##### Summary of Cleaned and Capped Copper materials saved:

150' 1/2" Type L C&C copper

30 - 1" copper 90's

10 - 1h" copper couplings

The materials saved also includes various consumable materials, such as nitrogen purge gas, brazing rods, fire protection materials, fuel and prep materials.

#### Summary

The use of MediTrac® flexible medical gas tubing allowed the project to be completed in one day rather than over 6 + working days. The reduction in installation time was 80% compared to using traditional cleaned and capped copper - allowing the contractor a more efficient use of time and allowing the facility to return to normal operation with no closures or down time. Additionally, MediTrac® allowed for a reduced amount of sheetrock removal, repair and painting, providing additional savings to the owner. The benefits of using MediTrac® tubing includes:

Ease of transport to the job site

Reduced cost in support items such as brazing rods and purge gas

Possibility of internal piping contamination is greatly reduced

Long continuous lengths and lack of intermediate joints and the systems flexibility eliminate fire prevention issues during difficult brazing situations (wires, ducts with dust inside, walls, gas piping, etc.)