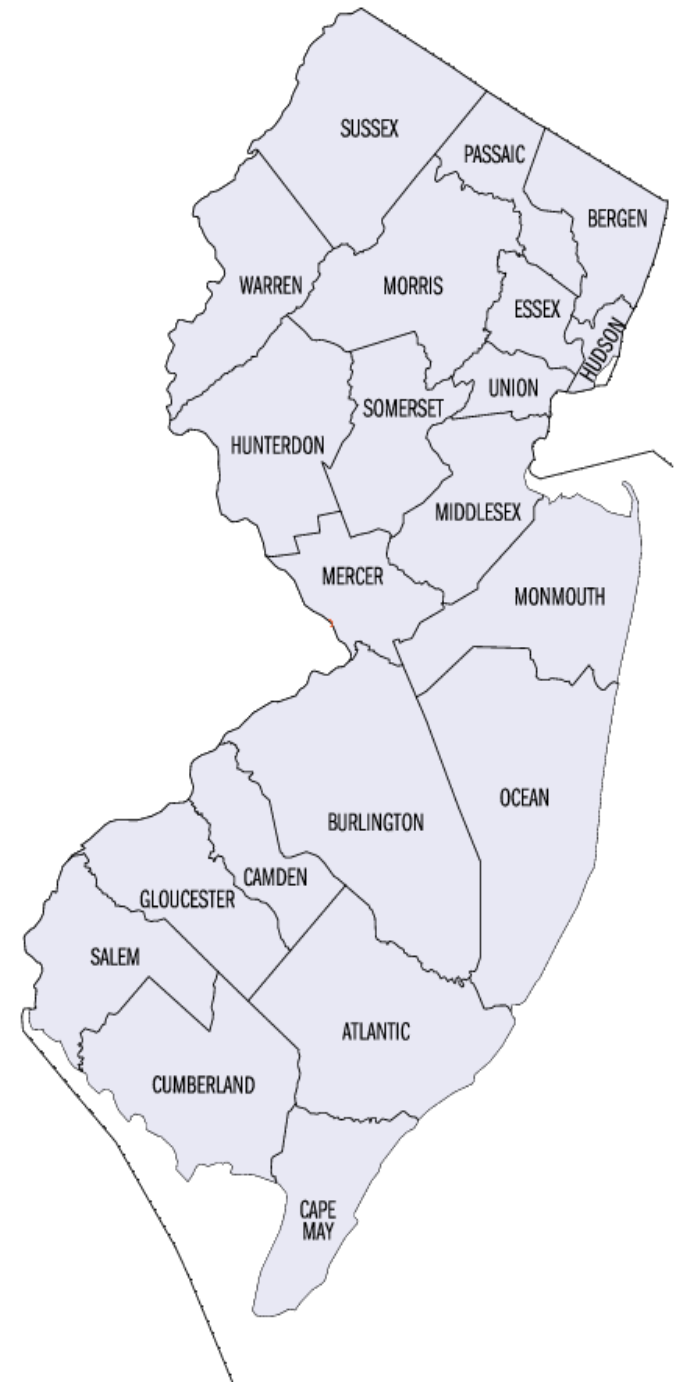
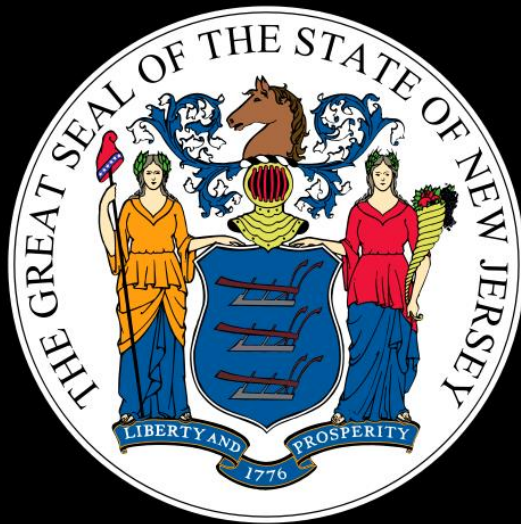




# UASI Funded

## Metro USAR Strike Team





# Agenda

## **Why?**

Why was the Metro Strike Force created?

## **Who?**

Who is the Metro Strike Force?

## **What?**

What does the Metro Strike Force do?

## **When?**

When is the Metro Strike Force used?

## **How?**

How does the Metro Strike Force impact NJ?



# Why?



The Metro USAR Strike Team was created after 9/11 when it was recognized that heavy rescue units would be needed in a task force concept during the early hours of an emergency



# Why?



- The Metro Strike Force was formed to provide first response capabilities to a technical rescue scenario
- These first responders include:
  - Highly trained rescuers
  - Latest, most technologically advanced equipment
- USAR Teams could take up to 6 hours to reach an emergency scene; The Metro Strike Force is manned and ready to respond 7 days a week, 24 hours a day



# Why? Con Ops Plan



- In 2003 a Con Ops Plan was written by Robert Hannson, a senior planner for NJ-TF1. This plan was developed around the transportation infrastructure response
- The Con Ops plan was developed focusing on a basic target capabilities assessment completed in the UASI region to determine the appropriate number of heavy rescue units and personnel needed to operate effectively, until the arrival of USAR Response



# Why? Funding



Since the Metro Strike Force's inception, the program has been federally funded by DHS

## Funding Totals

2003.....	\$2,454,040
2004.....	\$3,710,300
2005.....	\$1,000,000
2006.....	\$750,000
2007.....	\$1,500,000

**Current Metro Strike Force Program Funding To Date  
\$9,414,340**

# 2008 to Present

- Since 2007 the average funding to the Metro Strike Team has been roughly 1.2 million a year.
- To date, this brings the total to around 17.8 million dollars.





# Who?



The New Jersey Metro Strike Team is a UASI funded project, teaming firefighters/rescuers/PAPD ESU from a contiguous urban region to provide a common rescue service to the UASI Region and residents of NJ

# Counties



# Counties

Essex



# Counties

Essex

Hudson

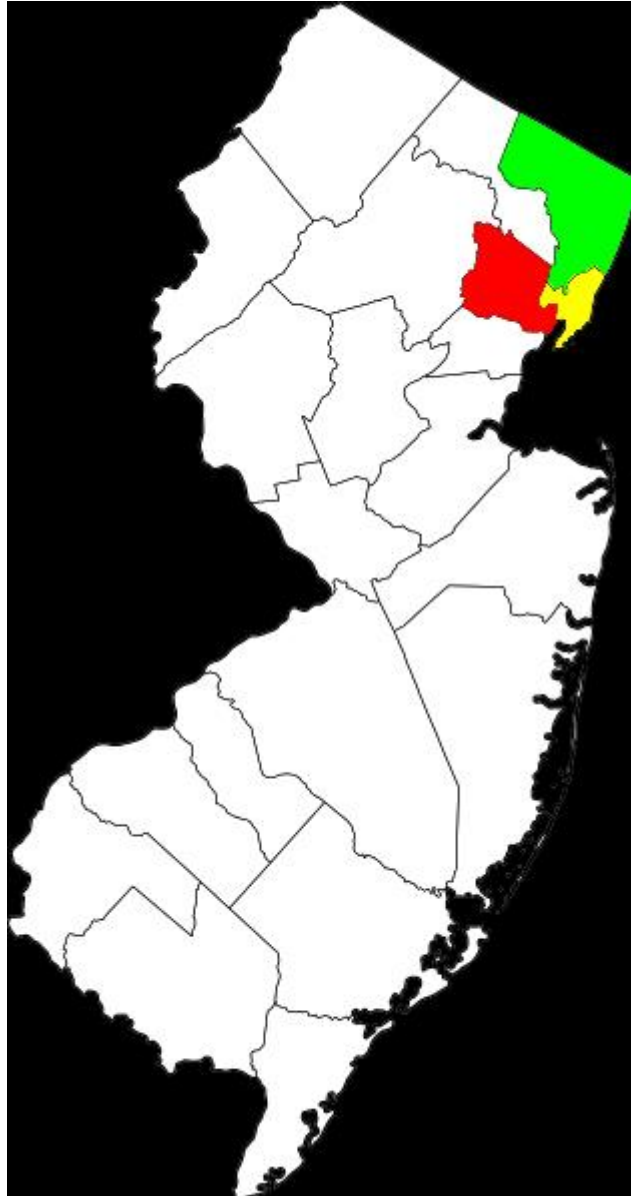


# Counties

Essex

Hudson

Bergen



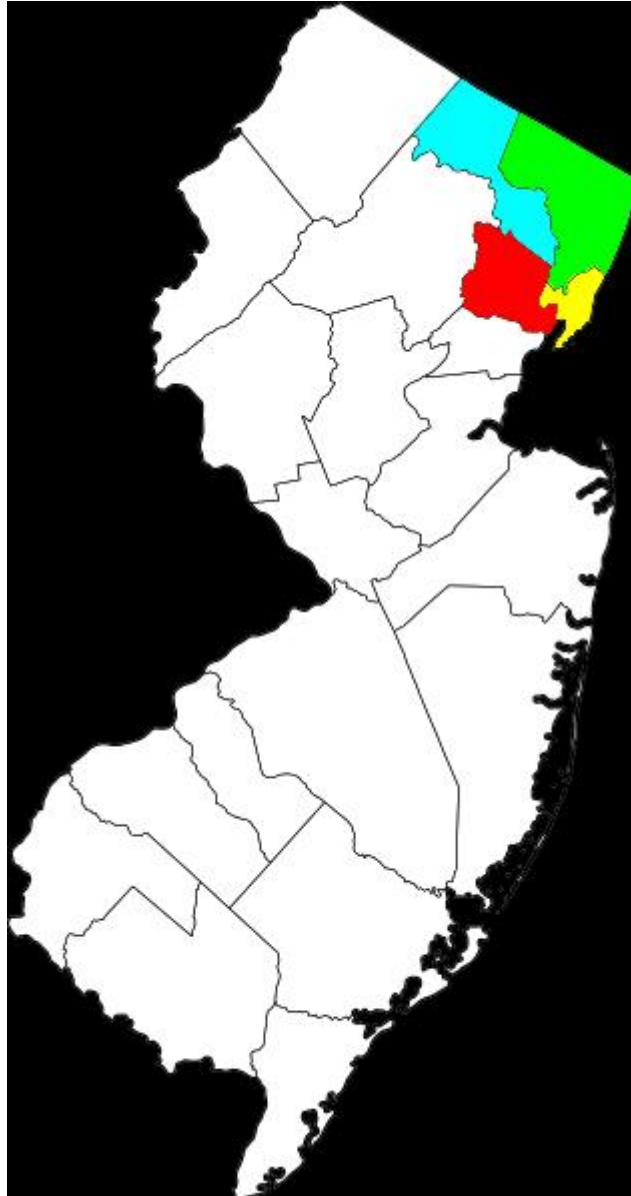
# Counties

**Essex**

**Hudson**

**Bergen**

**Passaic**



# Counties

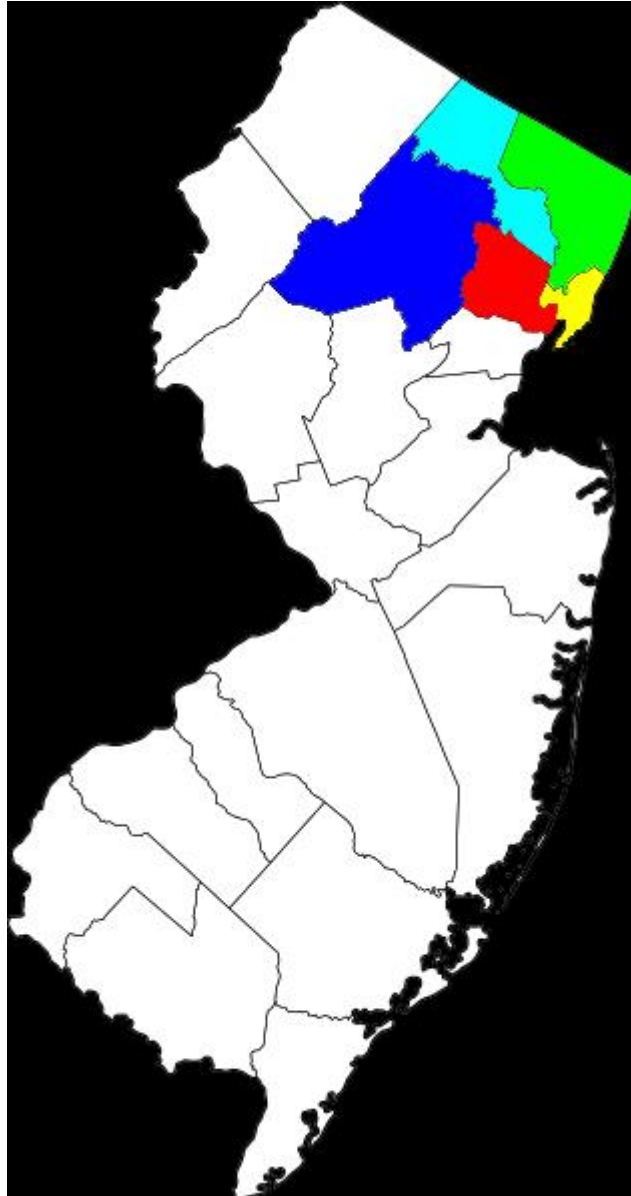
**Essex**

**Hudson**

**Bergen**

**Passaic**

**Morris**





# Counties

**Essex**

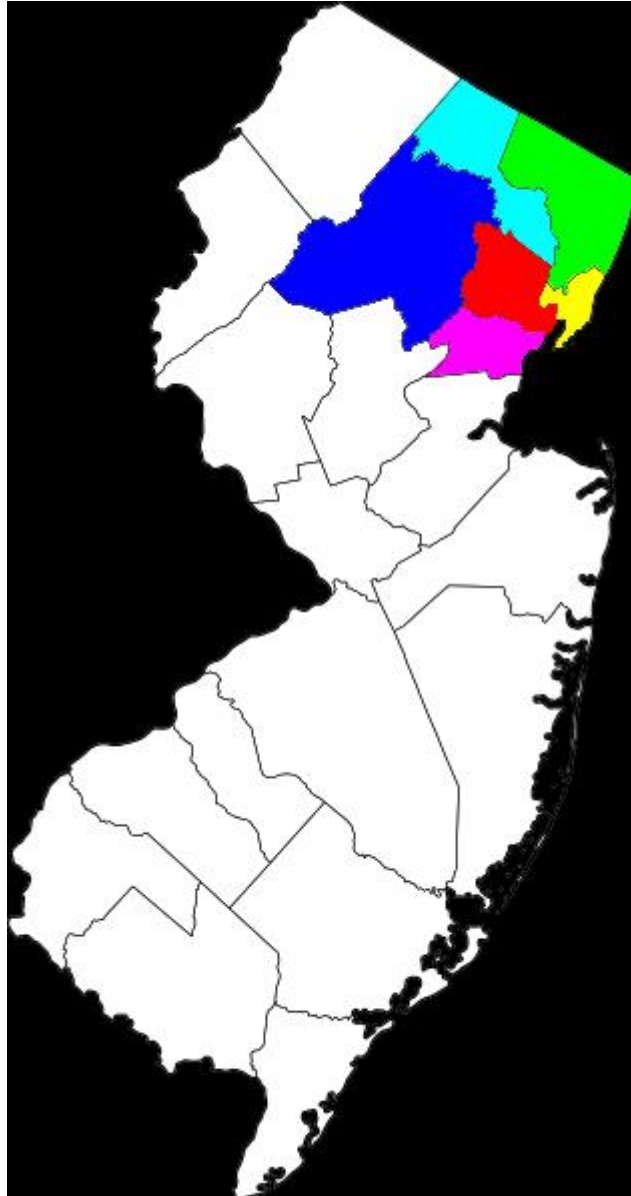
**Hudson**

**Bergen**

**Passaic**

**Morris**

**Union**





# Counties

**Essex**

**Hudson**

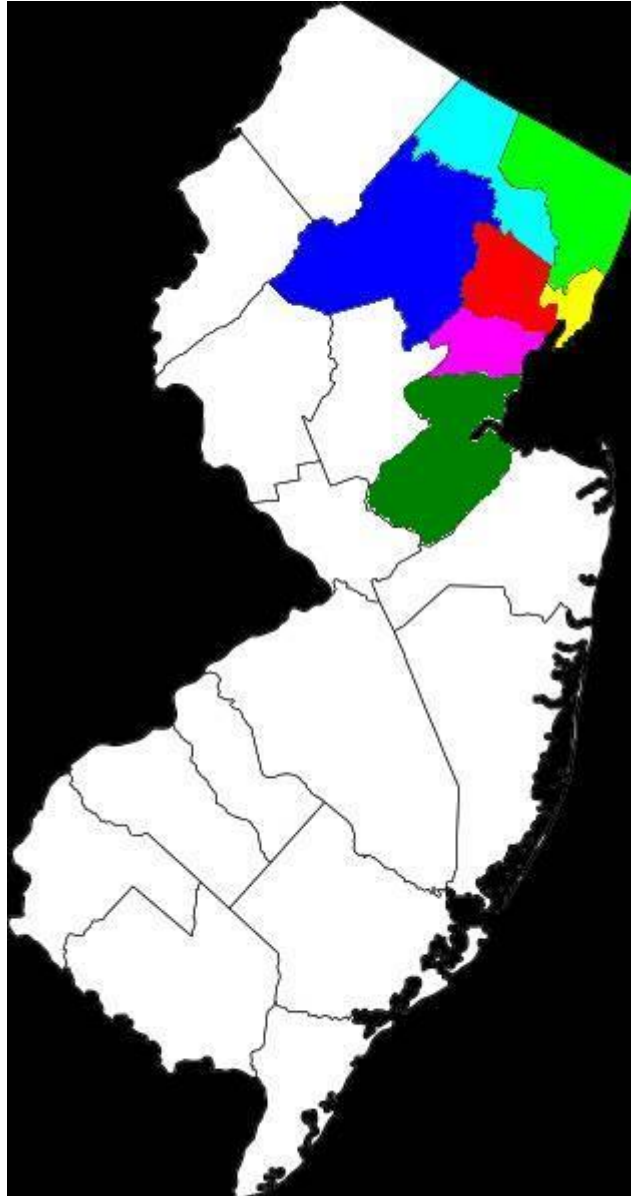
**Bergen**

**Passaic**

**Morris**

**Union**

**Middlesex**



# Counties

Essex

Hudson

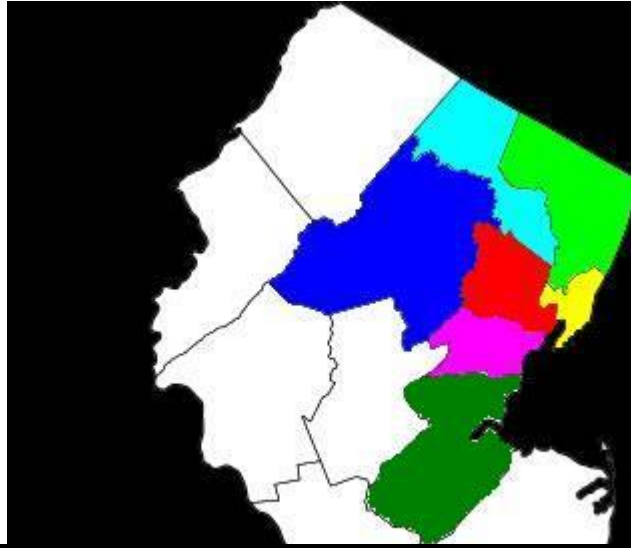
Bergen

Passaic

Morris

Union

Middlesex



**52% New Jersey's  
Total Population**



County's

Essex

Hudson

Bergen

Passaic

Morris

Union

Middlesex

# Metro USAR Strike Team



**Bayonne F.D.**

**Hackensack F.D.**

**Jersey City F.D.**

**Paterson F.D.**

**NY/NJ Port Authority**

**Elizabeth F.D.**

**Hoboken F.D.**

**Newark F.D.**

**Morristown F.D.**

**Middlesex Co.**

**North Hudson Regional F.D.**

# Lumber Trucks

- Lumber trucks are located in Elizabeth, Milburn, Hackensack, and North Hudson Fire Departments.
- Large quantities of shoring lumber are on board. The event determines how much lumber may be needed. The trucks also carry trench panels.

# Counties

**Essex**

**Hudson**

**Bergen**

**Passaic**

**Morris**

**Union**

**Middlesex**

# **Metro USAR Strike Team**



**500 Firefighters**

**(11) Units**

# November 2008



**Metro USAR Strike will add its 11<sup>th</sup> rescue truck to its fleet**

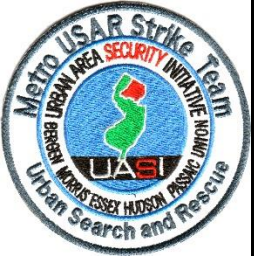
**Housed and manned by (40) PAPD officers who have been trained by NJ-TF1**

**This unit will respond as part of the Metro USAR Strike Team, 24 hours/7 days a week**

**(1) Sergeant or above**

**(5) Police officers**





# What



- The Metro Strike Team is a NIMS compliant Rescue Task Force
- Comprised of experienced municipal firefighters and PAPD police officers
- Equipped with the latest, most technologically advanced equipment
- Trained to the highest standard
- Brought together to provide the highest quality of service



# What? Services



- **Structural Collapse**
- **Tunnel Rescue**
- **Vehicle Extrication: *Large Scale***
- **Search Camera**
- **Breaching / Cutting / Drilling: Steel, Concrete, Wood**
- **Stabilizing: Struts, Cribbing, Wood Shoring**
- **Trench Rescue**
- **Ropes and Rigging**
- **Lifting: Hydraulic Jacks, Air Struts, Air Bags**



# 1<sup>st</sup> Due Metro Strike Team Unit

- In Morris County this will be **Morristown FD**
- Report to the **Command Post**
- Receive a briefing from the **Incident Commander**
- **Inform** the Incident Commander if more Metro Strike Team Units are needed and any other special supplies
- Relay a **RESCUE PLAN** to the Incident Commander
- **Coordinate** with NJTF-1 upon its arrival
- Give **TIMELY PROGRESS REPORTS** to Strike Team Dispatch (Union County Dispatch)

# Morris County Teams

- Building Collapse/High Angle – Morristown FD
- Trench – Morristown FD, Cedar Knolls FD, Madison FD
- Confined Space – Morristown FD, Cedar Knolls FD, Madison FD
- Air Truck – Morris Plains FD
- Morristown FD is the lead agency and will determine if additional resources will be needed.
- Contact County Dispatch for this Response

# Morris County Teams – Cont.

- DIVE – Boonton FD, Parsippany R&R, Jefferson Co.#2, Pequannock Co. #1.
- SWIFT WATER/FLOOD – Boonton FD, Boonton Twp., Whippany, Parsippany R&R, Parsippany Co.#5
- ICE – Boonton FD, Parsippany R&R, Whippany FD, Pequannock Co.#1, Denville FD, Jefferson Co.#2, Millington FC, Brookside FC, Budd Lake FD.

\*\*\*\*Picatinny also supports many of these disciplines.\*\*\*\*

Contact County Dispatch for this Response.

First responders may not have the training backgrounds to begin operations at technical rescue scenes. Yet a first responder may have to begin the process of size-up and get ready to notify and support local technical rescue team responses. Initial company safety is paramount, and identification of scene hazards to the victim and rescuers are part of the initial actions being taken. Consider your departments role and response to these incidents and develop your own incident size-up procedure for first responder technical rescue response. Develop SOP's & SOG's for these types of responses.

# **Typical Types of Technical Rescue Responses.**

- Trench
- Confined Space
- Vertical (rope)
- Water
- Structural Collapse
- Wildland Search
- Heavy Extrication
- Ice
- Dive

# Operational Levels & Duties (NFPA 1670)

- AWARENESS – Minimum capability to provide response to tech. search & rescue incidents (Notify Higher Level, Secure Scene, Gather Info)
- OPERATIONS – Identify hazards, use equipment, apply limited techniques to support and participate in incidents (prepare equipment, support Technician)
- TECHNICIAN – Identify hazards, use equipment, apply advanced techniques to support and participate in incidents. Coordinate, perform and supervise incidents (Perform rescue/recovery)
- The hardest thing that an IC will have to control is their own personnel from entering these spaces. (Although they have good intentions it could make things even worse.) A progressive Fire Officer can train their personnel in advance for these types of events so they can be put to work staging equipment and setting up an area for incoming equipment as close to the scene as possible.

# So What Can We Do While We Wait

- *Confined Space* –

**Establish Command** – Call the Resources required.

KEEP ALL MEMBERS OUT OF THE SPACE

**Establish a Staging Area** – Large & Close enough to accommodate all incoming equipment.

**Conduct Size Up** – How many persons in space, any known hazards, conditions of victims, obtain the C/S permit, find the responsible Person in Charge of the entry, Lock Out/Tag Out, Call Utilities (if required), Secure stock of SCBA Cylinders or Air Truck.

\* **Establish Strong Perimeter Control.**

# So What Can I do While I Wait

- *Trench Rescue*

**Establish Command** – Call the Correct Resources

Keep all members out of trench

**Establish staging area** (large and close enough to accommodate all incoming equipment)

**Shut down all equipment**, traffic and rail use to reduce vibrations that may affect the trench stability.

**Conduct Size up** and relay information to Tech. Rescue Leader. – How many persons in the trench and their condition, known location in the trench, any known hazards, find responsible person for trench work.



# Trench Continued

- **Locate a Vacuum Truck** – Most municipalities have this type of vehicle. If not, locate one in a neighboring community and preplan their response. (Morris County does have one but it may take time to get it to your location.)
- **Tag Out / Lock Out** – if required
- **Contact Utilities** – if located near the trench.
- **Assemble Manpower** – with shovels and buckets to prepare to remove spoil piles.
- \* **Establish Strong Perimeter Control**

# Building Collapse

- Establish Command – Call the correct resources.
- Remove surface and lightly trapped victims.
- Establish Staging Area – Large and close enough to accommodate all incoming equipment.
- Shut Down Equipment – traffic, rail use to reduce vibrations.
- Conduct Size Up – Number of possible trapped victims and their possible location, any known hazards, conditions of victims.
- Tag Out / Lock Out – if required.
- Call Utilities – ALL
- Establish Strong Perimeter Control

# Training for the Metro USAR Strike Team



# Training for The Metro Strike Force

The Metro Strike Force currently uses the New Jersey Urban Search and Rescue Task Force One's training facility at Lakehurst Naval Air Station



This facility maintained by NJ Task Force-1 and has the highest quality training simulators and props in the region

Without a close partnership between



and



this training would not be possible.

# Indoor Training

**10,000 sq. ft. Hanger Deck Space**





# Outdoor Training

## 7 Acre Training Field



# Outdoor Training

## 20,000 sq. ft. Rubble Pile



# Rescue Simulators





# Confined Space Simulator



# Passenger Rail Car Simulator



# Trench Rescue





# Who is NJ-TF1

- NJ-TF1 is the State of New Jersey's Urban Search and Rescue Team
- NJ-TF1 was established in 1997 to address a technical rescue void in the State Emergency Response Plan.
- They assist local response when capabilities have been exhausted or exceeded. NJ-TF1 operates under the NJ State Police/Office of Emergency Management, Homeland Security Branch, Emergency Management Section, Urban Search & Rescue Unit.



# Who is NJ-TF1

- Currently 220+ active members from Fire, Police, EMS, and various civilian occupations
- Members are volunteers who represent all 21 counties of the State.
- Able to respond to large incidents, i.e., structural collapse, confined space rescue, hi-angle/rope rescue, trench collapse, swift-water/flood rescue, technical K-9 search, large incident management/accountability, with proficiency and unique specialized equipment.



# Components of NJ-TF1

- **Rescue Component**
  - Composed of rescue specialists and heavy rigging specialists
  - Trained to FEMA USAR System and NFPA 1670 Standards
- **Search Component**
  - Composed of technical search specialists and canine search specialists
  - Equipped with advanced seismic/acoustic search equipment and highly-trained K-9
- **Medical Component**
  - Comprised of trauma doctors and paramedics
  - Has the ability to setup a field hospital





# Components of NJ-TF1

- **Planning Component**
  - Comprised of planning managers, technical information specialists, and structural (engineering) specialists
- **Logistics Component**
  - Comprised of logistics specialists and communications specialists
  - Has the ability to establish a formal command post, support a tent city, showers, bathroom facilities, berthing and food areas
- **Hazmat Component**
  - Comprised of a 30-member hazmat specialist unit
  - Maintains advanced monitoring and detection equipment, as well as an on scene multi-level Decon



**How does this Partnership work?**





# ***Partnership***



- **Sets standards for all technical rescue work**
- **Identifies new tools and techniques**
- **Offers cutting edge training for a large scale deployment**
- **Composes drills to meet everyday urban rescue targets**
- **Provides technical rescue equipment and skills for the State**
- **Provides 24 hour, 7 days a week coverage**
- **Maintains rescue skills and equipment**
- **Maintains the one team training techniques setup by NJ-TF1**
- **Nationally certified USAR team**



# When?



- The Metro Strike Team can be deployed at a moments notice
- Fully-staffed 7 days a week, 24 hours a day
- The Metro Strike Team can be requested by any Local, State, or Federal Agency in NJ to assist with any technical rescue scenario
- The Metro Strike Team can be requested by any adjoining state/region to assist with any catastrophic rescue scenario

# How to Call for the Metro Strike Team





# Metro Strike Team Dispatch



**The Union County Dispatch Center serves as the dispatch center for the Metro Strike Team**

**IN MORRIS COUNTY, CALL THE MORRIS COUNTY COMMUNICATIONS CENTER, 973-795-0990**

- The Metro Strike Team operates on USAR Channel 7 on the NJSP 800 MHZ Trunked Radio System, which can be patched to a Morris County talkgroup if necessary
- Each Strike Team Unit was assigned:
  - 1 base station radio
  - 1 mobile radio
  - 7 portable radios
- The Strike Team has a full set of up-to-date SOPs on communications



## **To Request help from Outside The UASI Region:**

**A request for the Metro Strike Team outside the UASI region, You must call your assigned County Coordinator, State Coordinator or the Division of Fire Safety at: 1-877-653-4737**

# What Can I Request

## *Half Response*

**5 Metro USAR Strike Team Units**

**(5) officers (25) firefighters (5) chiefs**

**(2) shoring units**



## *Full Response*

**11 Metro USAR Strike Team Units**

**(11) Officers (55) firefighters (11) chiefs**

**(4) shoring units**



When a **FULL** or **HALF RESPONSE** is requested

Current protocol states NJ-TF1 will send an advance team to assist the Metro Strike Force in our scene assessment.





# How?



- NJ has benefited from the Metro Strike Team
- Since the Metro Strike Team was formed in 2006, there have been full deployments to:
  - Fanwood, NJ
  - Irvington, NJ
  - Boonton Twp., NJ
  - Hoboken, NJ
- Smaller scale deployments have also been requested to:
  - RT 78, Berkley Heights, NJ
  - Newark, NJ
  - NJ Turnpike, Hackensack, NJ
  - Millburn, NJ
  - Passaic, NJ



# Metro Strike Team Response to Fanwood

May 15, 2007

## Scenario

Shortly after 2 PM the Metro Strike Team was requested by Fanwood FD to respond to a scene a major building collapse.



Upon the Metro Strike Team arrival they found that a two and a half story masonry wall had separated from an adjacent building under construction and fell on the building next store a one story machine shop cause major structural damage and trapping 3 workers.

# Metro Strike Team Response to Fanwood

May 15, 2007

## Response

Upon Fanwood's arrival they quickly determined that the incident was beyond the capabilities of the Fanwood Fire Dept. and requested mutual aid from neighboring communities, as well as, the Elizabeth Fire Dept. Special Operations Unit.



**Fanwood also recognized that for this complex technical rescue scenario, a quick response of a highly trained, highly capable technical rescue team was needed.**

# Metro Strike Team Response to Fanwood

May 15, 2007

## Response

The Metro Strike Team was requested with a full response. This response included:

- Newark
- Morristown
- Jersey City
- Paterson
- Hoboken
- Hackensack
- Bayonne
- North Hudson Regional
- Elizabeth (Already on location requested as a mutual aid resource)



**NJTF-1 was also requested to respond**



# Metro Strike Team Response to Fanwood

May 15, 2007

## Rescue Efforts

Upon the arrival of the Metro Strike Team Elizabeth Fire Department Special Operations Unit along with Fanwood and the mutual aid fire departments were able to successfully remove all 3 trapped victims.



The Metro Strike Team once on scene completed searching the collapsed structure and completed shoring and stabilization.

# Metro Strike Team Response to Irvington

## October 19, 2007

### Scenario

Shortly after 8 AM the Irvington Fire Department was dispatched to a Natural Gas Explosion at the intersection of 22<sup>st</sup> St. and 20<sup>th</sup> Ave. Upon arrival they found two wood frame residential structures completely collapsed and partly involved in fire.



While, Irvington Fire Department began fire suppression, it was reported that 3 victims were missing. It was realized that a highly trained, highly capable, technical rescue task force was needed.



# How Does the Metro Strike Team Need Support



- Manpower
  - Equipment movement
  - Debris removal
- Supplies
  - Additional specialized shoring lumber
  - Additional fuel
    - Gasoline
    - 2 Stroke oil mix
    - Diesel
    - Vacuum trucks
- Rehab

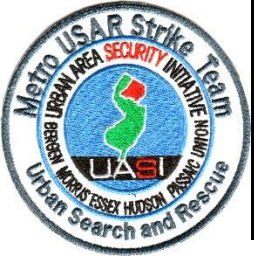




# Specialized Shoring Lumber



The Metro Strike Team uses a variety of technically specific lumber to complete a shoring and stabilization assignment that is needed to make the environment safe for rescuers to enter, search, and remove trapped or injured victims.



# Specialized Shoring Lumber



A shoring and stabilization assignment is very  
lumber-intensive.



2003 Atlantic City Park deck collapse





# Specialized Shoring Lumber



The Metro Strike Team maintains a cache of specialized lumber, however the jurisdiction where the emergency occurs in may be asked to supplement or re-supply the Metro Strike Team.



## Trench Rescue Operation

# **Possible Specialized Support Supplies Needed**

**Lumber: 3/4" CDX plywood**

**Douglas Fir lumber: 2x4's 4x4's 6x6's 2x10's**

**Blades for tools : wood, metal, concrete**

**Fuel for Tools: mixed fuel, regular fuel, diesel**

**Spray Paint: orange marking paint**

**Safety: work gloves, safety glasses, ear plugs**



# Equipment Carried by The Metro Strike Team



The Metro Strike Team carries the latest, most technologically advanced equipment. This equipment is all funded through UASI and each unit is uniformly equipped.





# Morristown FD Rescue 5





# Specialized Rescue Equipment



Some equipment carried by the Metro Strike Team





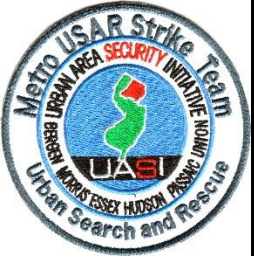


# Specialized Rescue Equipment



Some equipment carried by the Metro Strike Team





# Specialized Rescue Equipment



Some equipment carried by the Metro Strike Team



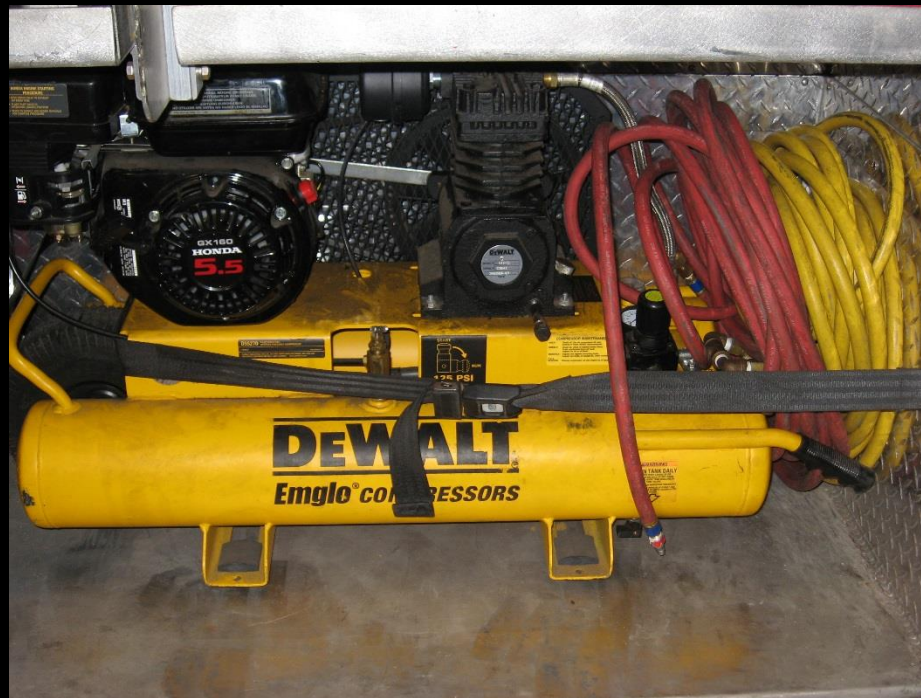




# Specialized Rescue Equipment



Some equipment carried by the Metro Strike Team



# NJ - UASI FIREFIGHTING EQUIPMENT



# UASI Firefighting Equipment

Consists of the following:

- Neptune Pump
- Iron Man Deluge Unit – 6000 GPM Nozzle
- Two 12” Hose Reel Trucks – 2000 Feet each
- 4000 Gallon Foam Tender
- 3800 Gallon Foam Tender
- Quick Attack Vehicle
- Air Cascade Vehicle



# UASI Firefighting Equipment



# Neptune Pump



# Neptune Pump





# Iron Man Deluge Trailer





# Iron Man Deluge Trailer



# Hose Reel Truck





# Hose Reel Truck



# 4000 Gallon Foam Tender



Operated by Parsippany FD



# 3800 Gallon Foam Tender



Operated by Riverdale FD

# Quick Response Unit





# Quick Response Unit



# Drafting Phish











# EQUIPMENT RESPONSES

- ANY REQUEST FOR UASI FIREFIGHTING EQUIPMENT GOES THROUGH THE COUNTY AND STATE COORDINATOR.
- MORRIS COUNTY WILL SEND A FOAM TENDER OUT OF COUNTY ACCOMPANIED BY AN ENGINE COMPANY FAMILIAR WITH FOAM OPERATIONS.
- **BE ADVISED – AUTHORIZATION WILL BE NEEDED FROM A RESPONSIBLE PARTY FOR THE RECOVERY OF EXPENDED FOAM!!**

# MORRIS COUNTY AIR TRUCK

- Staffed by Morris Plains FD, stationed at the Morris County Fire Academy.
- Six fill stations at rear with on board compressor and spare Scott 4.5 cylinders.
- Can be requested by any FD by contacting their County Coordinator or State Coordinator.
- Morris County Dispatch Center 973-795-0990



# County Air Truck



# Decon Trailers

- 1 at Flanders FD
- 1 at Morris Twp. FD
- 1 at Picatinny FD / supported by Wharton FD
- 1 at Fire Academy as a back up.
- Morris Twp. Is the lead agency for these units and will be primary for these requests.
- Can be requested by any FD by contacting their County Coordinator or State Coordinator or Morris County Dispatch.

# Decon Trailers



# Questions?

- Contact your County Fire Coordinator at 973-285-2944