

# Mine Site Construction



## Hazard Awareness Challenges

THE IRON WORKERS'  
UNION PROGRAM

# Walter Wise

- General Secretary  
IABSO&RIW
- Trustee  
National Training Fund
- Chairman  
Iron Worker-MSHA Committee
- Served an Ironworker  
Apprenticeship 1974-1976
- Worked Throughout the Coalfields  
1981-1989



# ***The International Association of Bridge, Structural, Ornamental & Reinforcing Iron Workers, AFL-CIO***

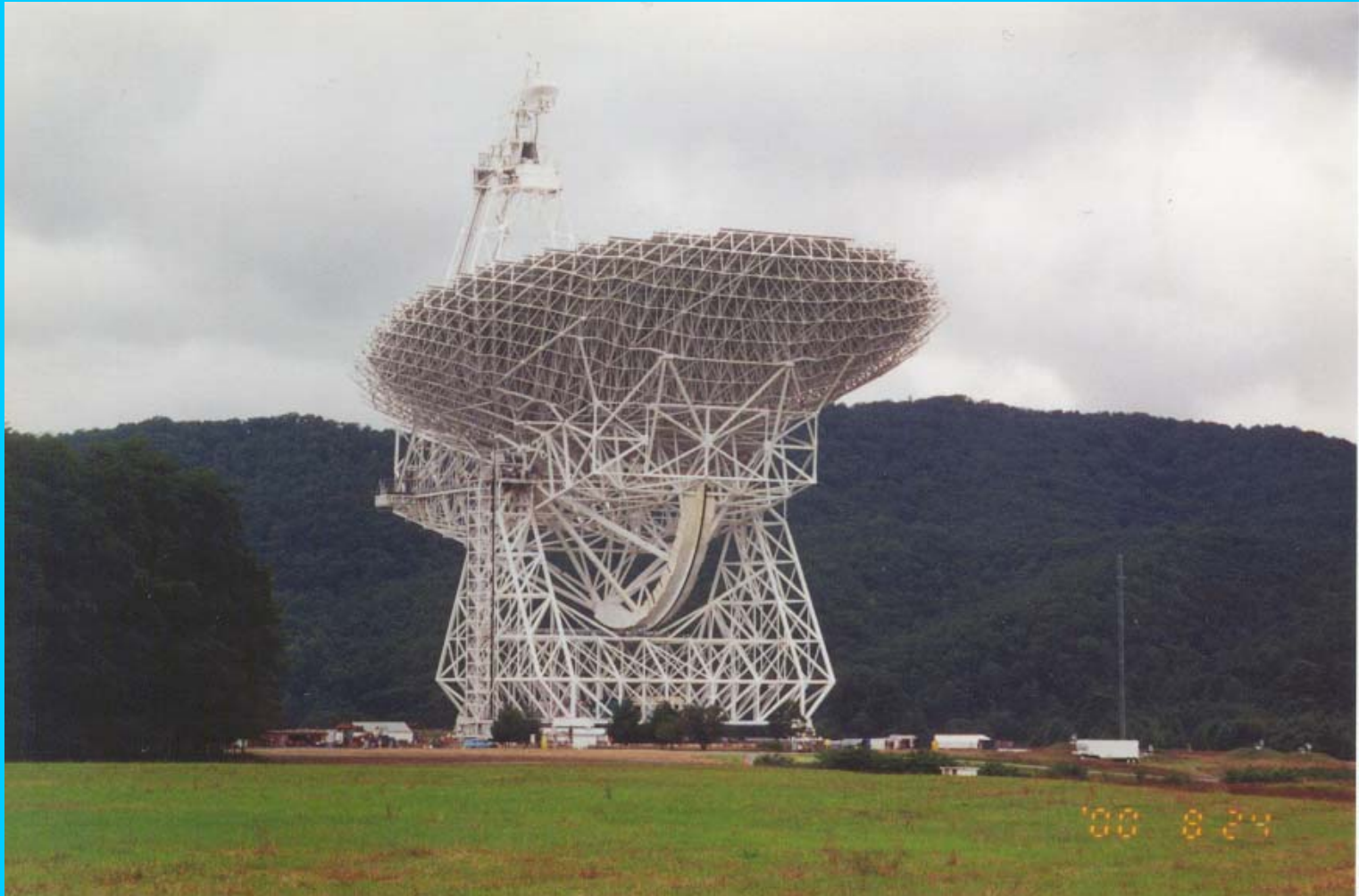
- **Formed on February 4, 1896, in Pittsburgh, PA**
- **Comprised of 6 Local Unions totaling 3,650 members**
- **Safety was the No. 1 issue**
- **In 1911, our organization was losing 1% of its membership a year to jobsite fatalities**

# ***The International Association of Bridge, Structural, Ornamental & Reinforcing Iron Workers, AFL-CIO***



- **174 Local Unions in the United States totaling 95,500 active members**
- **Safety is still the No. 1 issue**
- **In 2009, we had 12 fatalities or .0125% of our membership**
- **Employed by thousands of contractors under collective bargaining agreements through Local Union Hiring Halls**

# Erect Structural Steel



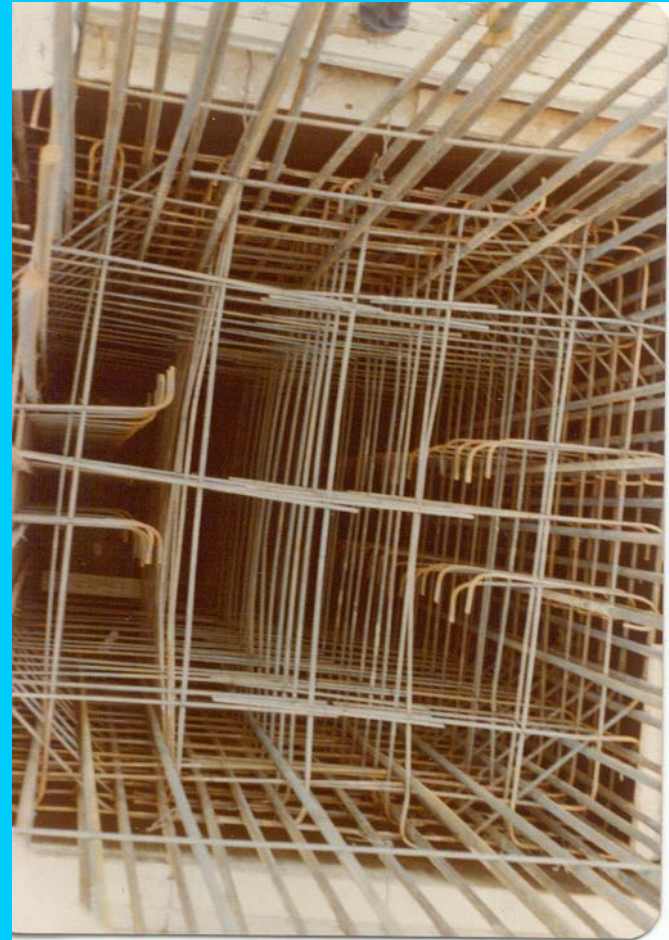
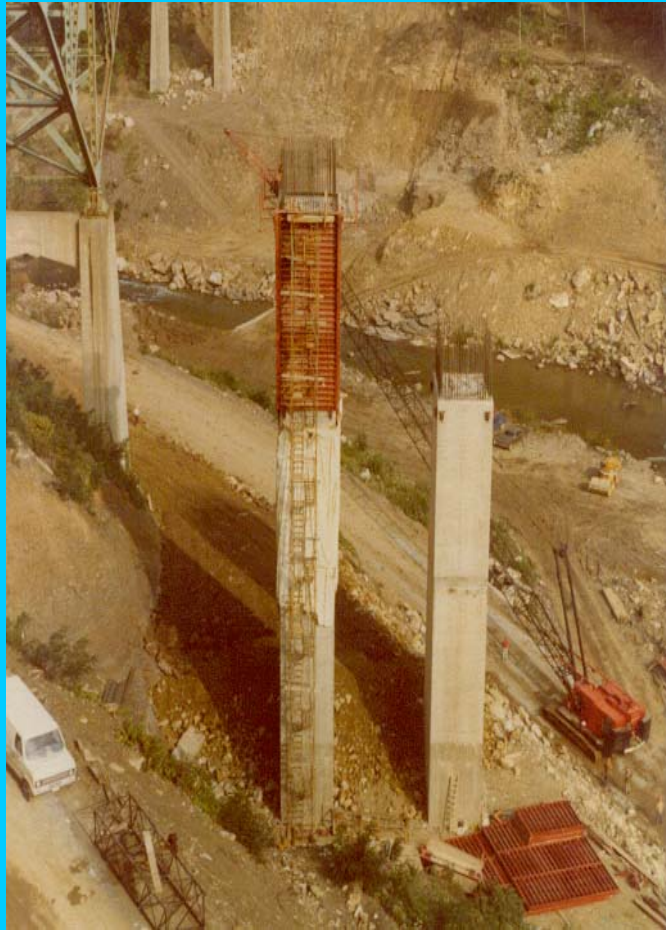
Green Bank Observatory, Green Bank, WV

# Erect Structural Steel



Bluestone Bridge, Princeton, WV

# Install Concrete Steel Reinforcing Bars



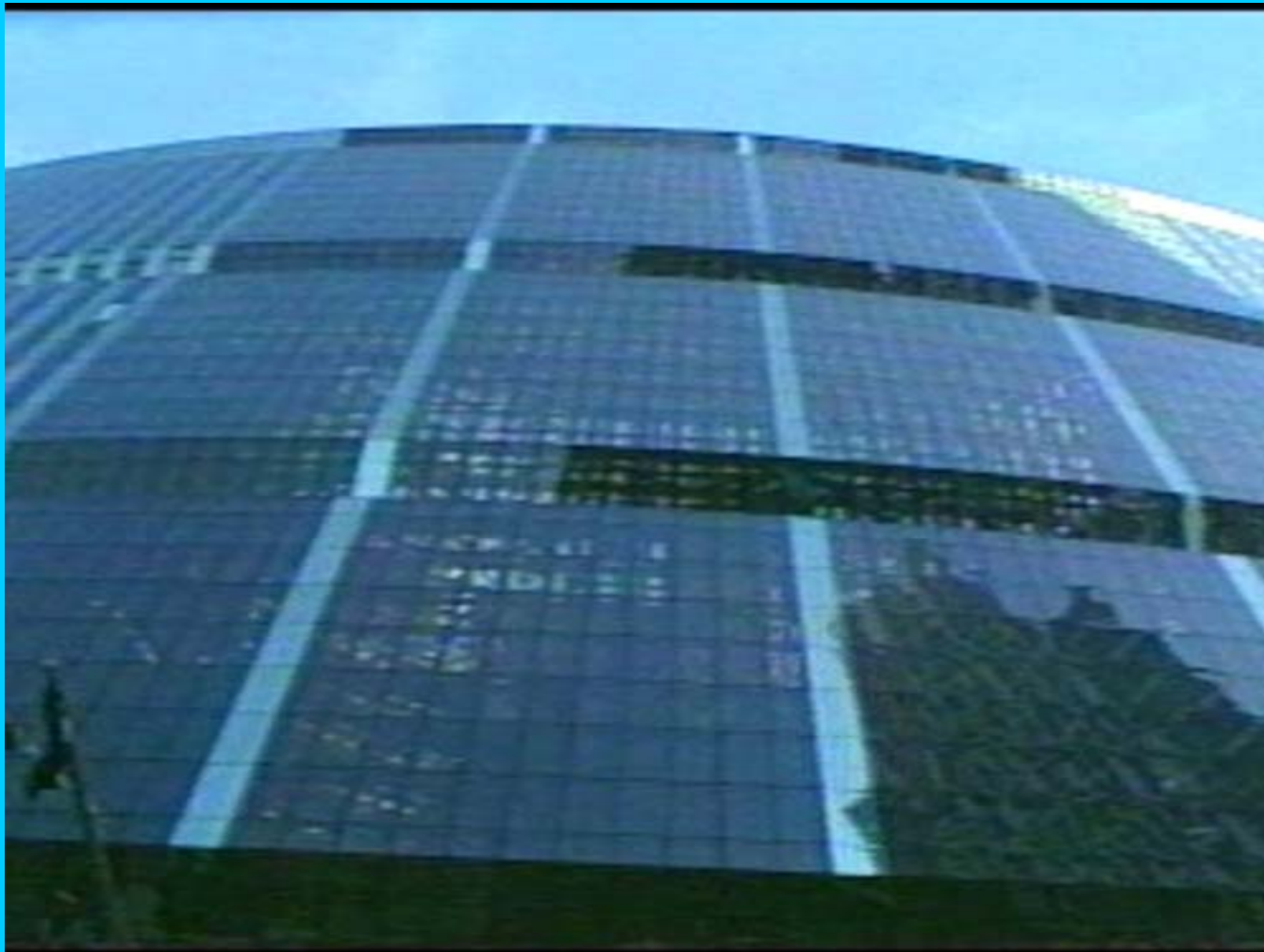
Bluestone Bridge Piers, Princeton, WV

# Install & Move Heavy Machinery



Transformer, Huntington, WV

# Install Metal Siding & Glass Curtainwall



# Erect Metal Buildings



# **I.M.P.A.C.T.**

**Ironworkers Management Progressive Action Cooperative Trust**



**National Training Fund**



**Apprenticeship**

**Certifications**

**JIW Upgrading**

**Instructor Training, Standardized Curriculum,  
Training Materials, Record-keeping, Program Audits**



**LOCAL UNION J.A.T.C.**



**LOCAL UNION MEMBERSHIP**

# **NATIONAL TRAINING FUND**

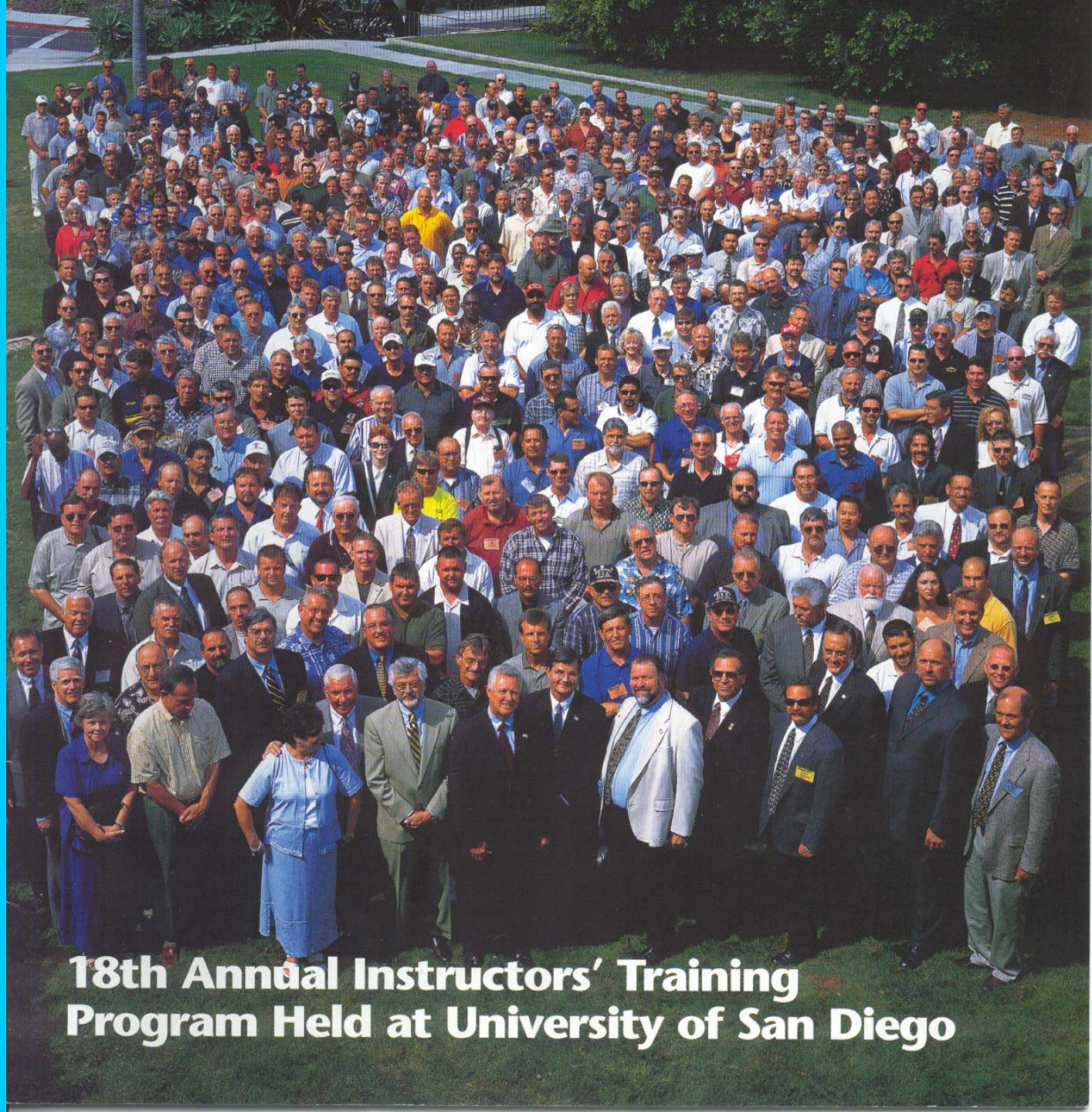
**Conducts Train-the-Trainer classes at three  
Regional Training Centers**

**St. Louis, MO**

**Oakland, CA**

**Northern New Jersey**

**And at the Annual Instructors' Seminar at  
the Eastern Michigan University and  
Washtenaw Community College**



**18th Annual Instructors' Training  
Program Held at University of San Diego**

# NATIONAL TRAINING FUND

In addition to the 3-year and 4-year apprenticeship programs requiring 204 hours of classroom instruction per year and Journeyman Skill Upgrading, the National Funds offers the following certifications.

- Various American Welding Society certifications through 80 accredited facilities at Local Unions
- 40-hour Hazardous material, lead hazard, OSHA 10-hour and OSHA 30-hour Safety Course, CPR/First Aid
- Scaffold User/Erector/Dismantler, Post-Tensioning installation, Sub-part R Steel Erection, Aerial Lifts, and MSHA Safety Training



# Iron Worker's Local #5

## Joint Apprenticeship Training Committee

9110 Old Marlboro Pike  
Upper Marlboro, MD 20772

Ph. 301-599-0940

Fax 301-599-5789







# **JOURNEYMAN IRONWORKER**

- **PROFESSIONAL**
  - **ATTITUDE**
  - **SKILLS**

Our International  
Association and Local  
Unions dedicate nearly  
50 million dollars per year  
to membership training.

Money negotiated through  
collective bargaining  
agreements and allocated by  
the membership to training.



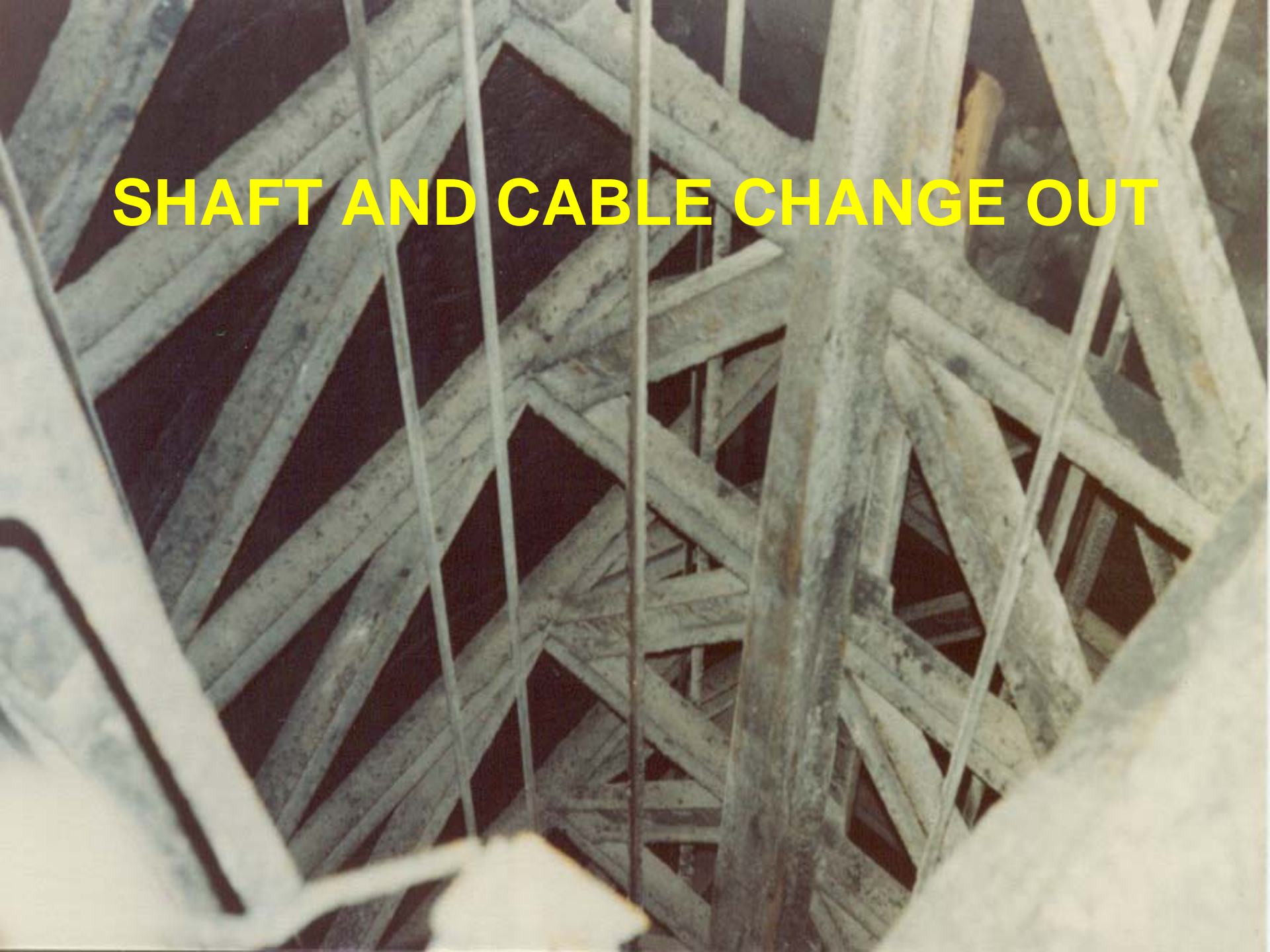
**SHEETING**



# CONVEYORS



# SHAFT AND CABLE CHANGE OUT



A photograph of a large industrial facility, possibly a refinery or chemical plant. The image shows a complex network of large, horizontal pipes supported by a dense structure of steel beams and ladders. The pipes are painted in different colors, including white, orange, and grey. The background features a clear blue sky and some greenery in the foreground. The word "MAINTENANCE" is overlaid in large, bold, black capital letters across the center of the image.

**MAINTENANCE**

# INSTALLATION



# A LITTLE BIT OF EVERYTHING



# APPROVED TRAINING PLAN

The Iron Worker **30 CFR Part 48 B** Plan  
has been expanded to also meet the  
requirements of **30 CFR Part 46**



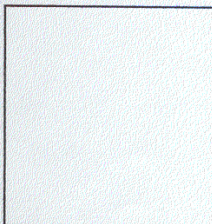
**83 LOCAL UNIONS  
HAVE APPROVED TRAINING PLANS**

# APPROVED INSTRUCTOR

290 Iron Worker  
instructors have  
been certified and  
approved by MSHA

572-88-5082	
U.S. Department of Labor Mine Safety and Health Administration	
Instructor WISE WALTER W	
CODE IN	QAL 12/2000
CODE IS	QAL 12/2000
*****	
MSHA Form 5000-33a, Aug. 83	

	<b>Mine Safety &amp; Health Administration (MSHA)</b>	
<b>IRONWORKER INSTRUCTOR</b>		
	<b>Walter W. Wise</b>	
	<b>Approved Instructor</b>	
	In accordance with Part 46 & Part 48-B, CFR Title 30	
<b>**Must be accompanied by MSHA Form 5000-33a, Aug. 83**</b>		

<b>Jake West, General President</b> International Association of Bridge, Structural, Ornamental & Reinforcing Iron Workers	<b>Raymond J. Robertson, Chairman</b> National Ironworkers & Employers Apprenticeship Training & Journeyman Upgrading Fund
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# **MEMBERSHIP TRAINING**

**Incorporated into Local Union  
Apprenticeship Classes**

**7,745 Ironworkers have completed new  
miner training and refresher classes**

Based on approved OMB Number 1219-0070. False certification is Punishable under Section 110(a) and (f) of the Federal Mine Safety & Health Act (P.L. 91-173 as amended by P.L. 95-164).

Training conducted at:

I certify that the above training has been completed.

\_\_\_\_\_  
Signature of person responsible for Training

\_\_\_\_\_  
Date Training Completed

**Joseph J. Hunt, General President**

International Association of Bridge,  
Structural, Ornamental and  
Reinforcing Ironworkers

**Trustees**

National Ironworkers and Employers  
Apprenticeship Training and  
Journeyman Upgrading Fund



**Certificate of Training for Ironworkers**  
Mine Safety & Health Administration (MSHA)  
MSHA Approved Alternate Form 5000-23, Feb. 2001



has completed the following approved Training

**New Miner Training - 48.25**  
**Also Meets the Requirements of**  
**Part 46.5 New Miner Training**

I verify that I have completed the above training

This certificate is required under Public Law 91-173 as amended by Public Law 95-164. Failure to comply may result in penalties and other sanctions as provided by Sections 108 and 110 P.L. 91-173 as amended by P.L. 95-164.

\_\_\_\_\_  
Signature of person trained

\_\_\_\_\_  
Date

**Since 2000, Union Ironworkers have  
worked over 13 1/2 million man-hours  
on Mine Sites**

**We have suffered one fatality**

**Iron Workers' Union**

**[www.ironworkers.org](http://www.ironworkers.org)**

**I.M.P.A.C.T.**

**Ironworkers Management**

**Progressive Action Cooperative  
Trust**

**[www.impact-net.org](http://www.impact-net.org)**

# Hazard Awareness Challenges

## What's So Hard About Preventing Worker Accidents?

- Does the Worker Want to be Hurt ?
- Does his Employer Want Anyone Hurt?
- Does the Owner Want Anyone Hurt?



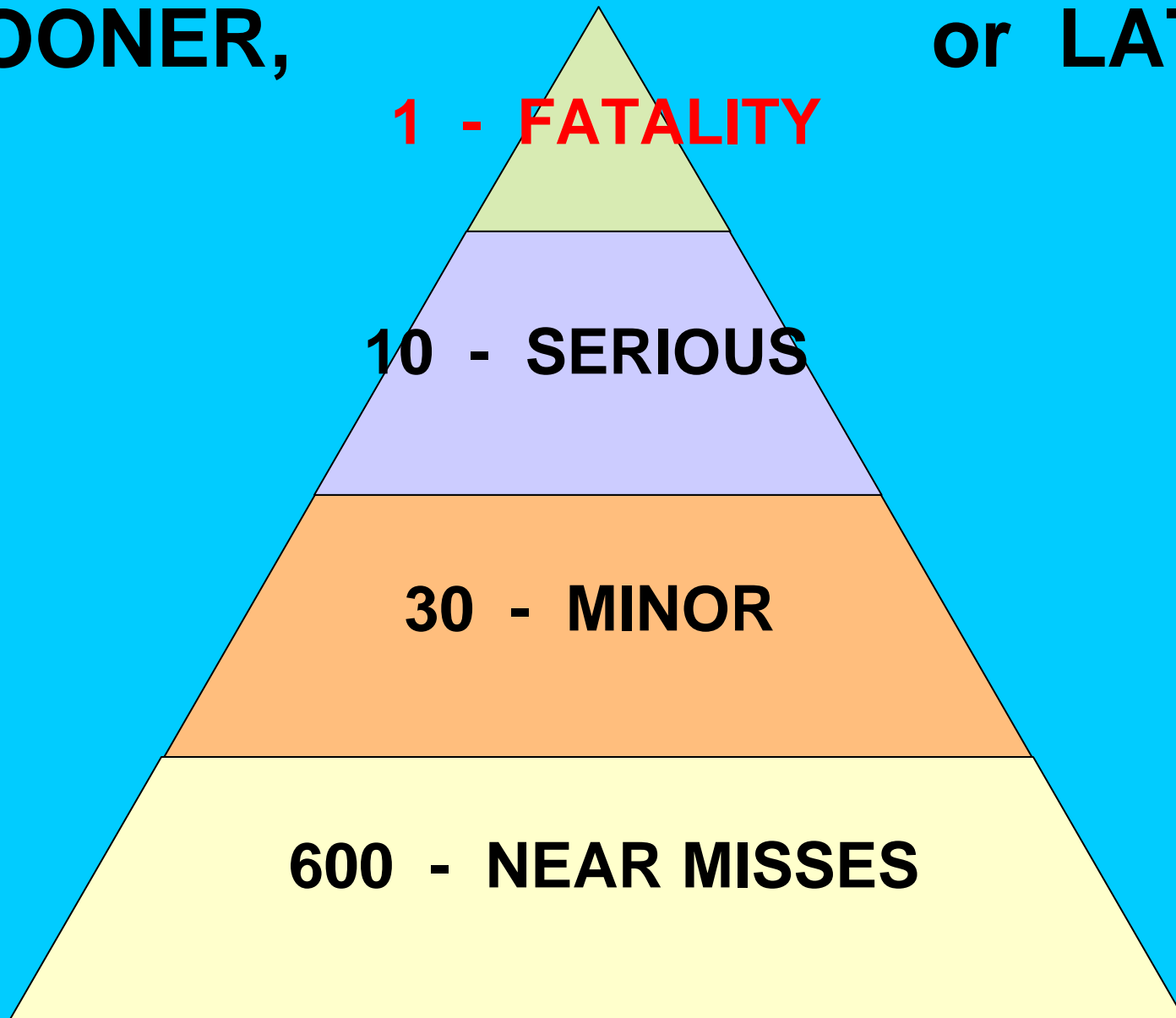






**SOONER,**

**or LATER**

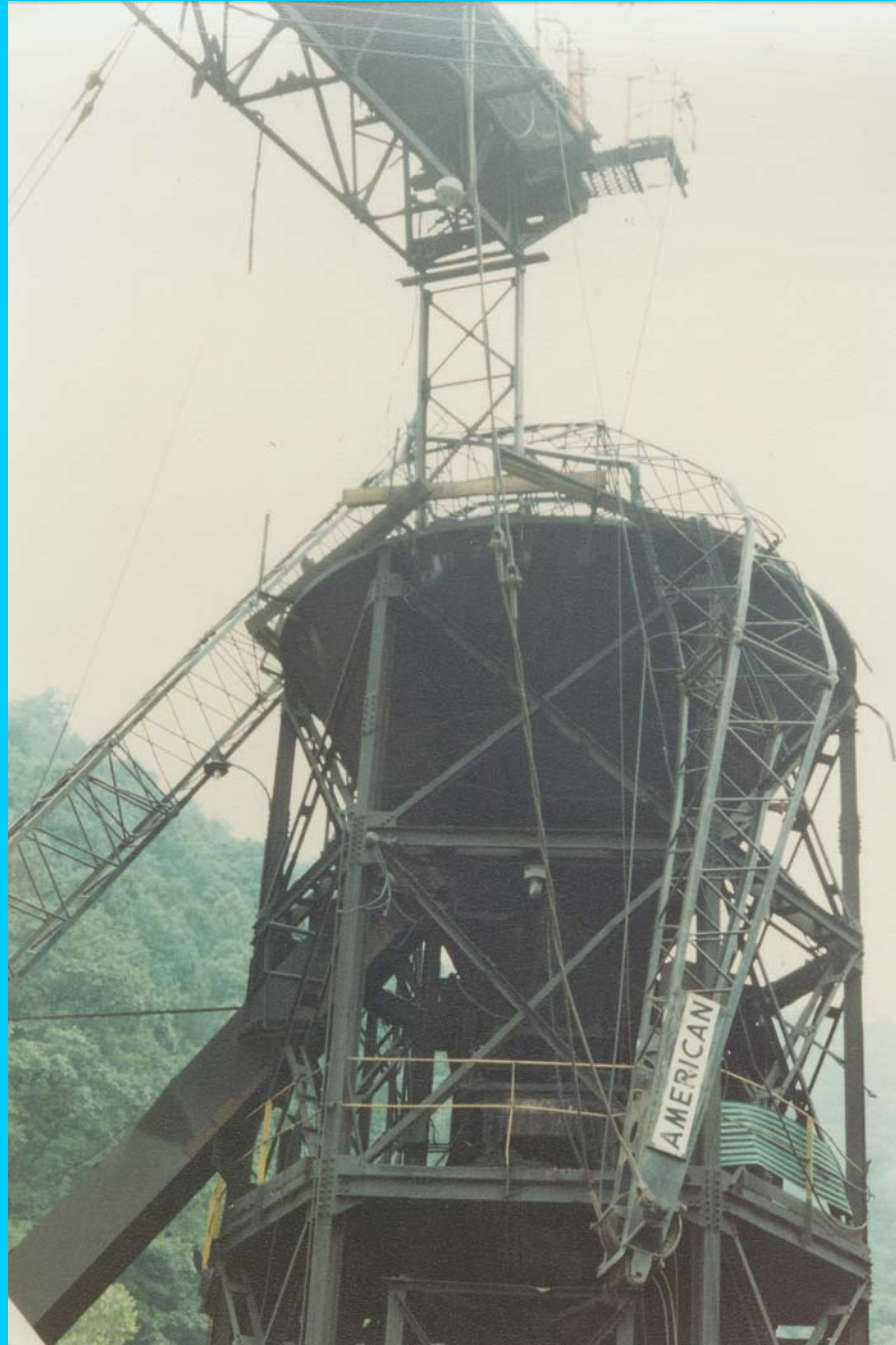


Heinrich's Triangle

# Hazard Awareness Challenges

**IF NO ONE WISHES ACCIDENTS TO  
HAPPEN, THEN WHO'S TO BLAME?**







# Hazard Awareness Challenges

## **MODIFYING HUMAN BEHAVIOR**

- **DEFINE CORRECT BEHAVIORS**
- **TRAIN TO THOSE BEHAVIORS**
- **PUNISHMENT or REWARD**
- **PRAY IT WORKS**

# Hazard Awareness Challenges

## TRANSITION TO MINE FACILITIES

- WORKER ATTITUDES
- OSHA CONTRADICTIONS
- NEW ENVIRONMENT
- UNFAMILIAR EQUIPMENT
- ASSUMATION OF KNOWLEDGE

# Hazard Awareness Challenges

## **MINE TRANSITION TO CONSTRUCTION**

- **WORKER ATTITUDES**
- **MSHA CONTRADICTIONS**
- **NEW ENVIRONMENT**
- **UNFAMILIAR EQUIPMENT**
- **ASSUMATION OF KNOWLEDGE**

**MSHA**  
**IRON WORKER**  
**ALLIANCE**

***July 18, 2004***



# **MSHA – IRON WORKER ALLIANCE**

- **SHARE BEST PRACTICES and  
TECHNICAL KNOWLEDGE**
- **DEVELOP & DISSEMINATE SAFETY  
and HEALTH INFORMATION**
- **FOSTER A CULTURE OF  
PREVENTION**

# MSHA Train-the-Trainer

- **Master Instructors (2010)**
  - Jack Gavett, LU 229
  - Frank Migliaccio, LU 201
  - David Weaver, MSHA
  - Jeff Hoblick, MSHA
  - Pat Hurley, MSHA
- **20 hours of MSHA Classroom**
- **20 hours of PDC Classes**
  - Taught by College Professors

# **Instructor Qualifications**

- **LU Instructor-Minimum 5 yrs.**
- **Recommended by LU JAC**
- **Worked at the trade-Minimum 5 yrs.**
- **OSHA 500 Instructor & First Aid/CPR**

**TO INSURE  
THAT EVERYONE  
RETURNS HOME  
EVERYDAY  
FROM WORK**

**Iron Workers' Union**

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