

WATER ENVIROMENT FEDERATION MEMBER ASSOCIATION SAFETY AWARD

The Federation's Member Association Safety Award is presented to selected associations in recognition of their association safety program, use of safety aids to promote safety programs, and the success of those programs.

The purpose of the award is:

1. Promote the establishment and implementation of organized safety programs in local wastewater works and collection systems.
2. Encourage Member Associations to conduct programs to promote safety in local wastewater works and collection systems.
3. Encourage participation in the collection of injury statistics form individual wastewater works and collection systems, and to encourage Member Associations' use of this data.

ELIGIBILITY

All Federation Member Associations are eligible for this award. All Member Associations are encouraged to organize safety programs to help local works and collection systems improve safety for their employees and the safeguarding of wastewater facilities.

1. The WEF Safety Awards are offered to Member Associations in three categories.
 - a. **less than 400 members**
 - b. **400 or more, and less than 1,000 members**
 - c. **1,000 members or more**
2. A Safety Award and an Honorable Mention Award may be awarded in each category.
3. If there are more than five submissions in any category, a second Honorable Mention Award may be awarded.
4. All awards are made at the discretion of the MA Safety Awards Subcommittee and only if an adequate program is submitted.
5. The Safety Award may only be given to an individual Member Association every other year. However, there is no restriction on the Honorable Mention Award.

APPLICATION

Member Associations must submit an application for the award on the forms provided by the Federation. *Applications must reflect programs and activities in the most recent calendar year (January-December).* The application must be supported by exhibits which document and illustrate the association's safety program. Designation is made on the request form of items where supporting exhibits are essential to explain scope and depth of safety activities.

1. Submit **six** copies of the application and all supporting information **by April 1** to:

Water Environment Federation
Awards Department
601 Wythe Street
Alexandria, VA 22314-1994

2. Exhibits should be clearly marked to coincide with the application.
3. If you have questions, please call the Awards Department, 703-684-2477

AWARD SELECTION

All applications will be reviewed, and awardees selected by the Federation's MA Safety Award Subcommittee. Recommendations of this subcommittee are submitted to the Board of Directors for final approval.

Application
WATER ENVIROMENT FEDERATION
MEMBER ASSOCIATION SAFETY AWARD

Association Name _____

Number of Members _____

1. Safety Organization and Programs (Mark with "X" and include one page exhibit)

- (a) Association had Safety Committee Yes_____ No_____
- If yes, Chair _____
- Vice Chair _____
- Committee Size _____

Please include a copy of your committee charge

- (b) Other Safety Organizations—describe _____
- _____

- (c) _____ Safety Contest

- (d) _____ Safety Award

- (e) _____ Consultation Service

- (f) _____ Sponsor Training Courses

- (g) _____ Safety Subjects on Annual Meeting Program

- (h) _____ Specialty Safety Meetings or Conferences

- (i) _____ Burke Award Program

- (j) _____ Other (describe) _____
- _____

2. Cooperation with other organizations of Safety (Mark with an "X", identify member)

- (a) _____ Have member on WEF Safety & Occupational Health
Committee (Provide member name)
- _____

- (b) _____ Have member on Safety Committee of other organization
(Provide member name and organization name)
- _____

MA Safety Application (Continued)

- (c) _____ Cooperate with others to sponsor safety training (Name "others" and explain cooperation in one page exhibit)
- _____
3. Safety Publicity (Mark with "X" and include one page exhibit)
- (a) _____ Newspaper, Radio, TV
- (b) _____ Association Newsletter
- (c) _____ Safety articles contributed to WEF Periodicals
- (d) _____ Safety exhibits at annual meetings and others
4. Safety Material and Visual Aids Used: (own, borrowed, or rented). Mark with "X" and include one page exhibits).
- (a) _____ Safety information library (technical books, employee booklets magazines, newspaper articles). Describe in an exhibit where located, how publicized and how many titles circulated.
- (b) _____ Training aids (posters, films, slides, videotapes) Describe in an exhibit how distributed and used.
5. Collection and Use of Injury Data:
- (a) _____ Encourage wastewater works to participate in safety surveys (Mark with "X"; enclose one page of illustrative publicity headlines)
- (b) _____ Use injury statistics from safety survey reports to publicize safety n needs (Mark with "X"; enclose one page of illustrative publicity headlines)
- (c) _____ Develop special reports of statistics on injury applicable to areas served by the Association (Mark with "X"; enclose one page description of special reports)

Application Submitted by: _____
(include position in the _____
Association and address) _____

Date: _____ Telephone: _____

**MEMBER ASSOCIATION SAFETY AWARD
INDEX TO EXHIBITS**

The Member Association Safety Award Application asks that exhibits be provided for numerous items as detailed below. Samples of some exhibits are included with this application package.

EXHIBIT	APPLICATION ITEM
1. Safety Organization and Programs	
Safety Committee Charge	1(a)
Other Safety Organization	1(b)
Safety Contest	1(c)*
Safety Award	1(d)*
Consultation Service	1(e)*
Sponsor Training Courses	1(f)*
Safety Subjects on Annual Meeting Program	1(g)*
Specialty Safety Meetings or Conferences	1(h)*
Other	1(i)
2. Cooperation with other organizations on safety	
Cooperate with other to sponsor safety Training	2(c)
3. Safety Publicity	
Newspaper, Radio, TV	3(a)
Association Newsletter	3(b)*
Safety Articles Contributed to WEF Periodicals	3(c)
Safety Exhibits at Annual Meetings and Others	3(d)
4. Safety Material and Visual Aids Used	
Safety Information Library	4(a)*
Training Aids	4(b)*
5. Collection and Use of Injury Data	
Encourage Wastewater Works to Participate in Safety Surveys	5(a)*
Use of Injury Statistics	5(b)
Special Reports	5(c)

*Sample attached

EXHIBIT 1(c)

CWPCA Safety Contest Information

The CWPCA Safety Contest consists of three individual categories. They are the following:

- **Small Plant Category—Less than 10 MGD**
- **Large Plant Category—Greater than 10 MGD**
- **Most Active Local Section**
- **George W. Burke, Jr. Nomination-in cooperation with the WEF**

Included in this award application is a blank application form used by a utility/agency interested in participating in the small or large plant category of the CWPCA Safety Contest for 1992.

The last paragraph of the “CWPCA Safety Committee Bulletin Article”, dated 10 August 1992 contains information relating to increasing participation in this safety contest.

CALIFORNIA WATER POLLUTION CONTROL ASSOCIATION

STATE SAFETY AWARD

APPLICATION

- INSTRUCTIONS:
- A. Submit three copies of entire application package.
 - B. Submitted materials will not be returned to sender.
 - C. All required information should be for the period January through December 1991.
 - C. If you have any questions, please call:
Mike DeMers (916) 587-2525 or
Karl Royer (415) 591-7121

1. GENERAL INFORMATION

- A. Name of Plant _____
- B. Address _____
- C. Dry Weather Average Flow _____
- D. Design Flow for Plant _____
- E. Number of Employees in:
Operation _____ Collection System _____
Plant Maintenance _____ Lab _____

NOTE: If your agency operates more than one plant and all plants come under one Department or Division, list total number for the above for your agency.

2. SAFETY RECORD (Submit the posted portion of the CAL-OSHA 200 Report)

- A. Total number lost time days due to injuries. _____
B. Total number of Accidents _____

3. REPORTING

- A. Do you have a formal accident review procedure?
Yes _____ No _____
B. Briefly describe how your accident review procedure works. Provide copies if possible. _____

4. SAFETY PROGRAM

- A. Do you hold regularly scheduled safety meetings?
Yes _____ No _____
If yes, describe type and frequency. Provide copy of file system index. _____

B. Who in your organization coordinates safety programs? Describe briefly. _____

C. What type of accident record keeping does your organization maintain? Submit copies of examples (names of individuals involved in examples can be removed if desired).
D. What type of emergency communications does your plant have if the telephone system is down? _____

E. List and describe any safety program which you feel are unique to your organization. Provide documentation if possible. _____

5. SAFETY TRAINING

- A. Who provides training? _____

- B. Frequency of training sessions? Provide documentation. _____

- C. Examples of topics covered. _____

- D. How many of your employees are CPR Certified? _____
- E. Is CPR training provided at agency expense and time? _____
- F. Has your agency made up a safety manual? _____
- G. Do you have in-house contingency plans for major disasters?
_____ If yes, submit examples.
- H. How often does your agency meet with other local agencies such as fire, paramedics to coordinate emergency response? Provide documentation. _____

- I. How often does agency hold response drills? Provide documentation. _____

NOTE: Since the Safety Award Committee has to make its decisions on what is submitted, make the package as complete as possible with as many examples as possible of forms and records that you maintain. If you have a Safety manual and/or a contingency plan, no need to send a complete copy, just send a copy of the table of contents.

Nomination form is due in triplicate by February 1, 1993. Send to:
CWPCA Awards, 3050 Citrus Circle, Suite 225, Walnut Creek, CA 94598-2628



CALIFORNIA WATER POLLUTION CONTROL ASSOCIATION

3050 Citrus Circle, Suite 225, Walnut Creek, CA 94598-2628
Fax (510) 938-0182 • Phone (510) 938-9722

REPLY TO: CWPCA SAFETY COMMITTEE BULLETIN ARTICLE 10 AUGUST 1992

By Michael De Mers
CWPCA Safety Committee Chairman

What can I do to promote safety in the workplace? When an individual truly cares about safety, but does not know how to become involved, what do you do?

The most significant contribution I can make in promoting safety in the workplace is to enhance communication. If an effective network of communication is in place, becoming involved is merely a phone call away.

I am currently in the process of contacting each Section safety committee chairperson for information-information on what the particular Section believes is in need of attention and what their safety training program consists of.

I am also continuing work on the agenda that Harry Mehta, our Past-Chairman was pursuing. This involves the California Accident Survey-a project that should indicate exactly where we, as a Committee, need to focus our attention. Interested in helping??

There are sixteen local Sections that contribute to the CWPCA Safety Committee-each plays a vital role in determining the degree of success we achieve. It is my intention to share information about each Section, by featuring each in the CWPCA Bulletin for the next two years.

LOCAL SECTION FEATURE: THE SANTA CLARA VALLEY SECTION

The Santa Clara Valley Section (SCVS) earned the "Most Active Local Section" Award for 1992 by demonstrating its commitment to safety in the workplace. The Section encourages participation of every member plant-each contributes on member to the Section's safety committee, participates in the scheduled

events/projects and hosts the monthly meetings. They have an exemplary 100 percent plant/committee participation!

Plants with more progressive safety programs provide support and information for other plants regarding safety procedures, laws and standards. They believe the interaction with other entities is essential for sharing information.

The Section is constantly working with other agencies/Sections to enhance safety awareness. They adopted the San Francisco Bay Section's "Heads Up" newsletter and in the process increased the circulation by 425 new members while gaining a vehicle for publishing articles relating to the SCVS.

The SCVS Safety Committee works with the CAL OSHA Consultation Service for guidance in initiating and providing a bi-monthly plant inspection program. The Section has a video library of 335 tapes; provides the speaker when co-hosting a Section dinner meeting once per year; and caps the year off with Section safety award competition. One plant is selected as having the most outstanding safety program-which serves to increase safety awareness among the Section members.

The SCVS presents an annual one-day safety seminar... this year it is entitled "Health and Wellness". The Section is also managing a safety track for a conference entitled "Training Exchange 1992". Hats off to the Santa Clara Valley Section's members and Board of Directors!

**** Complete and mail your CWPCA Safety Contest Application form NOW-you will automatically become a part of the information network. We can work within tight budgetary times more efficiently if we work TOGETHER to promote safety in the workplace!****



EXHIBIT 1(d)

COMMITTEE CORRESPONDENCE

WEF-IWEA

George W. Burke JR. FACILITY SAFETY AWARD

This award is presented through the Illinois Water Environment Association to a selected Municipal or Industrial Wastewater Facility in recognition of a documented and illustrated safety program and safety record. The purpose of the award is to encourage an active and effective safety program in local wastewater facilities and to stimulate the facilities to collect and report injury data.

ELIGIBILITY CRITERIA:

1. At least one employee of the facility must have a Water Environment Federation Honorary, Life, Member Association Active, Corporate Representative member or PWOD status at time of questionnaire submission.
2. The facility must comply with IDOL requirement regarding Annual Illness and Injury data record keeping.
3. The facility shall have an effective safety program as demonstrated by its injury/fatality rates.
4. The facility shall have a designated safety official or contact.
5. The facility shall receive a rating of 95% or higher on the Association's safety questionnaire.
6. The facility shall not have received this award from this Association for the preceding five (5) years.

(After 1992)

NOMINATION AND AWARD PROCEDURES

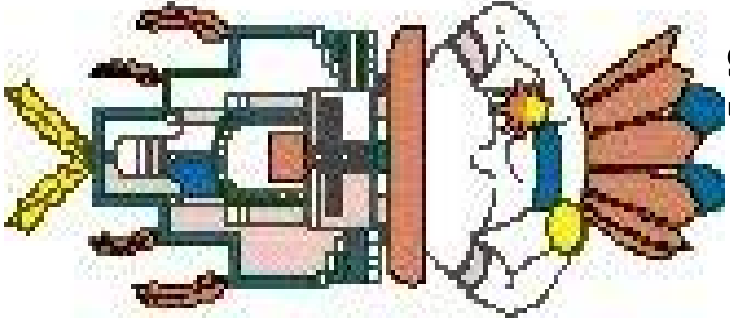
1. The nomination for the award should be submitted to the Chairperson of the Awards Committee with a copy to the Chairperson of the Safety Committee by October 15. The nomination shall include a narrative of why the facility should be considered for the BURKE FACILITY SAFETY AWARD.
2. A facility with more than one treatment plant under its jurisdiction may make only one nomination submittal in the annual nomination period. The nomination shall cover only one treatment facility.
3. Upon receipt of the nomination, the Chairperson of the IWEA Safety Committee shall forward a questionnaire to the manager of the facility being nominated. The facility manager must return the completed questionnaire to the Chairperson of the IWEA Safety Committee by December 1 immediately following the nomination's submittal.
4. The IWEA Safety Committee will subsequently evaluate each nomination. A physical plant inspection of the facility may also be made by representatives of the Safety Committee, who will verify the submittal with a duplicate questionnaire.
5. The IWEA Safety Committee will make a single nomination (if any) to the IWEA Awards Committee that best represents the spirit and criteria of the BURKE FACILITY SAFETY AWARD in the STATE OF ILLINOIS. (By June 1st)
6. The Award Committee will take action to present this nomination to the IWEA membership and Executive Board.

SAFETY AWARD

During the IWEA Conference held at the Pere Marquette Hotel in Peoria, Illinois on March 16-18, 1993, the 1992 George Burke Facility Safety Award was presented to the City of Mount Vernon/Environmental Management Corporation. Mr. Larry Hughes, Operations Director, accepted the award from Mr. Charles Kaiser, past WPCF President.

The Peoria Facility joins an impressive list of previous IWPCA member facilities with have received this honor:

1984	Lake Co. Public Works
1985	Yorkville-Bristol S.D.
1986	City of Kankakee
1987	Metropolitan Sanitary District of Greater Chicago
1988	Vernon Hills New Century Treatment Plant
1989	Village of Addison
1990	Village of Bloomingdale
1991	Greater Peoria Sanitary & Sewage Disposal District
1992	City of Mount Vernon/Environmental Management Corporation



Arizona Water & Pollution Control Association

Presents this
Award of Merit

Recognition of an Excellent Safety
Record
in the Water Pollution Control
Industry
for the Year

EXHIBIT 1(e)

Consultation Services

The CWPCA Safety Committee provides consultation services to its membership in many ways. We successfully utilize the talent of qualified individuals in the wastewater field for speaking at the yearly Regional Training Conferences or Annual Conferences. An example of this is Mr. David Bare, of Cal/OSHA Consultation-who spoke at our Annual Conference in Pasadena.

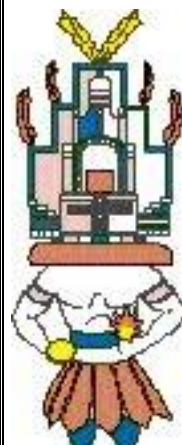
The Santa Clara Valley Section of the CWPCA routinely performs plant inspections, as part of their section safety awards program. A healthy form of competition had embraced safety in the workplace to create a very effective tool for increasing awareness, with regard to safety. A true win-win situation for all concerned!

Mr. Ken Wimberly, of the City of Stockton had developed a "Safety Bucks" program. We have utilized Ken's many talents by involving him at the CWPCA Safety Committee level-here Ken is able to reach a far greater audience throughout the State of California. And the genuine concern for safety with interested utilities/agencies by increasing his exposure.

The CWPCA retains a very impressive video library with Mark Niver, who works with the City of San Jose. The Safety Committee encourages the use of this video library; for we view it as a most valuable resource for all interested individuals.

A copy of the listing is included in this application.

EXHIBIT (f)



*Arizona
Water &
Pollution
Control
Association*

**Arizona Section
American Water Works
Association**

**Arizona Association
Water Environment
Federation**

**65th
Annual Conference
Abstract Booklet**

May 6, 7 & 8, 1992

**Mesa Sheraton
Mesa, Arizona**

ensure successful operation when one or more units were out of service for normal maintenance or emergency work.

The Pima County Wastewater Management Department retained Camp, Dresser & McKee Inc. to undertake a comprehensive engineering evaluation study and prepare a report of findings and recommendations. Following submission of that study a design was undertaken to convert two of the gravity thickeners to dissolved air flotation (DAF) thickeners. This conversion would achieve a more concentrated waste-activated sludge discharge to the digesters.

Prior to the conversion the plant was unable to stabilize all of the incoming sludge. This excess sludge was thickened by direct use of the vacuum filter building until 1988 and starting in 1989 by the use of a 16,000 gallon tank provided by Pima Gro. Pima Gro charges approximately \$0.01 per gallon differential for disposal of lime stabilized versus digested sludge. The conversion to DAF provided a dramatic cost savings in the handling of digested sludge rather than stabilized sludge. Since the units were placed in service in September, 1989, the plant operational staff have continued to enhance the DAF thickener operation. Currently they have discontinued all use of gravity thickeners and are thickening both primary and waste activated sludge in the two DAF units.

Affiliation & Address:

Pima County Wastewater Management
Department
201 N. Stone Avenue
Tucson, Arizona 85701
Camp, Dresser & McKee
110 S. Church Street, Suite 4190
Tucson, Arizona 85701

Title:

Preparation for ADEQ Wastewater
Inspections

Presenter:

Charles E. Ohr-Field Engineer

Abstract:

Although the Arizona Department of
Environmental Quality (ADEQ) does not have
the

wastewater program delegation from the U.S.
Environmental Protection Agency (EPA), the
Department contracts with the EPA to conduct
the majority of the wastewater compliance
assurance inspections in Arizona. Wastewater
treatment facilities (WWTF) may be operating
without permits or with any one or more of the
following types of permits in Arizona: National
Pollutant Discharge Elimination System
(NPDES), and Reuse or Aquifer Protection
Permit (APP). The NPDES permits are drafted
ADEQ and issued by EPA. The others are
drafted and issued by ADEQ. There are many
facilities which operate without the need for any
permit. However, they all share on common
cause or need for an inspection—the assurance
of proper operation and maintenance. In
addition the Department is often called upon to
inspect a facility as a result of construction
requirements or in response to complaints. This
presentation will address how the facility
management should be prepared for a
Department inspection. An inspection may
occur at any time or on any day without advance
notice. Therefore a state of constant readiness
needs to be maintained.

Affiliation & Address:

Arizona Department of Environmental
Quality
P.O. Box 600
Phoenix, Arizona 85001

May 6, 1992, WEDNESDAY AFTERNOON
SAFETY CONCURRENT SESSION

Title:

Hazard Communication

Presenter:

Belinda Eriacho-Environmental
Scientist

Abstract:

This presentation will give an overview of
Hazard Communication and what are the
components that make-up a Hazard
Communication Program. In addition, how are
hazards determined, what substance(s) are
exempt from the Hazard Communications
Standard, and the Relationship

between the Hazard Communication Standard and SARA Title III.

Affiliation & Address:

Arizona Public Service Company
P.O. Box 53999
Mail Station 9366
Phoenix, Arizona 85072

Title:

Chlorine Leak Emergency Response
Procedure

Presenter:

Keith F. Greenberg-Senior Treatment
Facilities Supervisor

Abstract:

The participant will be shown how the 91st Avenue Wastewater Facility (153.75 mgd design) deals with the possibility of a large chlorine release to the atmosphere. A step by step explanation of the emergency response plan for small leaks and the plantwide response to a large leak will be shown. Ideas will be discussed to help assist personnel at any size facility to set up an evacuation plan.

Affiliation & Address:

City of Phoenix
5615 S. 91st Avenue
Tolleson, Arizona 85353

Title:

Lockout/Tagout: Method or Madness

Presenter:

Paul Jordan-Maintenance Supervisor

Co-Presenter:

Bradley Burbridge

Abstract:

Lockout/tagout procedures are an often forgotten system at water and wastewater facilities. This

presentation will cover the following elements of comprehensive lockout/tagout system:

- Components that make up a lockout/tagout procedure.
- How to determine existing hazards.
- Necessity for a comprehensive program.

Affiliation & Address:

Pima County Wastewater Management
Department
7101 N. Casa Grande Highway
Tucson, Arizona 85741

Title:

Confined Spaces-Entry and Rescue Plan

Presenter:

Linda A. Christopherson-Industrial
Hygienist

Abstract:

We have been waiting since 1976 for the final rule from OSHA on confined spaces. Over ten years have been invested in researching the problems and developing criteria. Why is this standard needed and what must the water and wastewater industry do to comply since the final rule is expected early this year.

An estimated 300 fatalities occur annually and 60 percent of that number have been would be rescuers. The final rule's requirements for a permit and an entry permit program will address the hazards and ensure safe entry and rescue.

Affiliation & Address:

Arizona State OSHA
2675 E. Broadway, Suite 206
Tucson, Arizona 85716



EXHIBIT 1(g)

**CALIFORNIA
WATER POLLUTION CONTROL
ASSOCIATION**

P.O. Box 575, Lafayette, CA 94549 • FAX (415) 284-1240 • Phone (415) 284-1778

Reply to:

CWPCA ANNUAL CONFERENCE SAFETY COMMITTEE MEETING

TO: ALL SECTION SAFETY COMMITTEE CHAIRPEOPLE/REPRESENTATIVES

DAY: FRIDAY

DATE: 10 APRIL 1992

TIME: THE SAFETY BREAKFAST
7:00-8:45 A.M.

TOPICS FOR DISCUSSION:

REVIEW OF SAFETY CONTEST ENTRIES/RESULTS.

YOUR PARTICIPATION IN THE YEARLY SAFETY CONTEST.

REVIEW OF THE SAFETY COMMITTEE MEETING HELD AT THE NORTHERN
REGIONAL CONFERENCE IN REDDING.

CHANGING OF THE GUARD WITHIN OUR COMMITTEE...

COMMITTEE PLANS FOR 1992-93

THIS MEETING WAS ORIGINALLY SCHEDULED FOR THURSDAY, 9 APRIL 1992
FROM 2-4 PM. DUE TO OUR INABILITY TO ATTEND THREE MEETINGS AT ONE
TIME...THIS MEETING HAS BEEN RE-SCHEDULED.

PLEASE PLAN TO ATTEND THIS BREAKFAST MEETING. YOU ARE
WELCOME TO ATTEND EVEN IF YOU ARE NOT CURRENTLY SIGNED UP FOR
THE BREAKFAST.

WE WELCOME YOUR INPUT, AND REMEMBER—YOUR PARTICIPATION MAKE
THE COMMITTEE GREAT!



CALIFORNIA WATER POLLUTION CONTROL ASSOCIATION

3050 Citrus Circle, Suite 225, Walnut Creek, CA 94596-2626
Fax (510) 938-0182 • Phone (510) 938-9722

REPLY TO:

**TO: CWPCA SECTION SAFETY COMMITTEE CHAIRS, MEMBERS AND
LIASONS**

**FROM: MICHAEL DE MERS
CWPCA SAFETY COMMITTEE CHAIRMAN**

SUBJECT: CWPCA SAFETY COMMITTEE MEETING

**DATE: SUNDAY, 13 SEPTEMBER 1992
2:30-3:30 P.M.
SENATE ROOM, CAESAR'S TAHOE HOTEL**

Will you be attending the CWPCA Northern Regional Training Conference in South Lake Tahoe? You are invited to attend the Safety Committee Meeting—we welcome your input!

Topics for discussion:

Safety Training Programs at the Local Section Level.

CWPCA Southern Regional Training Conference Safety Agenda.

CWPCA Annual Conference Safety Topics.

California Accident Survey.

CWPCA Safety Contest Rules, Judging Criteria.

Future Projects.

64th Annual CWPCA Conference



“A Legislated: Environment.”

CONFERENCE PROGRAM

**APRIL 7-10, 1992
SACRAMENTO, CALIFORNIA**

FRIDAY MORNING APRIL 10

23B 9:45 a.m.

Designing a Selector for Activated Sludge
Lonnie Thibodeaux, City of Oceanside
John Christopher, MacDonald-Stephens Engs.

Break 10:25-10:35 a.m.

23C 10:35 p.m.

Preconstruction Surveys: A Method for
Managing Damage claims arising from
Sewer Construction
Curtis W. Swanson, Henry Thorn and
Paul A. Sciuto, CCCSD

23D 11:20

Microcomputer Applications in Field
Construction Management
Mike Tidwell, CH₂M Hill

SESSION 24 SAFETY *El Camino Room*

Session Chair: Mike De Mers, TTSA

7:00-8:30 a.m.- AWARDS BREAKFAST

24A 9:00 a.m.

Confined Space-Rules and Regulations
Lyman Tremble, J.G. Tucker & Son

24B 9:45 a.m.

Chemical Handling: Running the Regulatory
Gauntlet
Tracy A. Clinton, Philip Liang, Black &
Veatch
Sam J. Olson, City of Los Angeles

Break 10:25-10:35 a.m.

24C 10:35 a.m.

The CHP, The Law and You
(Chemical Hygiene Plan)
Nancy Anson and Frank Lewandowski,
Encina WPCF

24D 11:20 a.m.

Safety On The Streets-Do You Need the
Police?
Ken Wimberly, City of Stockton

TUESDAY

SEPTEMBER 15, 1992

SAFETY

Claudius Room

Chair: Mike De Mers

- | | |
|-------------|--|
| 9:00-9:40 | “Safety on the Streets-Do You Need the Police”
Ed Wimberly, Officer Towns |
| 9:50-10:30 | “Safety on the Streets”
Ed Wimberly, Officer Towns |
| 10:30-11:00 | Break |
| 11:00-11:40 | “Confined Spaces-Update of New Regulations”
Lyman Tremble |
| 11:45-1:20 | Lunch |
| 1:30-2:10 | “Safety Training-Improving Documentation to
Comply with Legislation”
David Walbeck |
| 2:10-2:30 | Break |
| 2:35-3:15 | “Personal and Respiratory Protection”
Mike Vilardi |
| 3:20-4:00 | “Hazardous Waste Minimization and Disposal”
Dan Hinrichs |

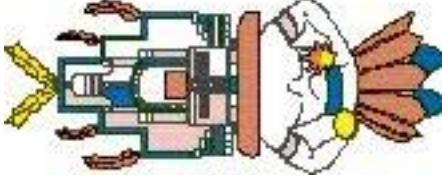
EXHIBIT 1(h)

Special Safety Meetings or Conferences

Already included in the award application package is information relating to the following special meetings/conferences:

- CWPCA Annual Conference—with a Safety Session consisting of four safety presentations.
- CWPCA Northern Regional Training Conference—includes one full day of safety training presentations.
- Sierra Section CWPCA Safety Day 1992—one full day of safety training, consisting of four individual classes.
- Southern Regional Safety Seminar—held 13 March 1992 in Ontario; hosted by the Desert Section.
- Safety Committee Meetings at both the Annual and Northern Regional Training Conferences.
- CWPCA Northern Safety Conference—held 4 November 1992 at the Yolo County Fairgrounds in Woodland, CA.

AWPCA



ONE DAY SEMINAR

**Chemical Handling
for
Water and Wastewater
Treatment Plants**

**April 2, 1992
AWPCA One Day Seminar**

Chemical Handling at Water and Wastewater Treatment Facilities

Increasing safety consciousness and more stringent building codes are causing an evaluation in the design and operation of chemical handling facilities for both water and wastewater treatment plants.

This seminar will cover a broad range of topics including the following:

- Impacts of Uniform Building and Fire Codes
- Chlorine Containment and Treatment
- Polymer Handling and Feed
- Secondary Containment of Chemicals
- Non-Chlorine Gaseous Chemicals; Ammonia and Sulfur Dioxide
- Personal Protection Equipment for Plant Personnel
- Communication and Chemicals

This Seminar is being held for administrators, operators and design engineers to discuss the latest issues involved with chemical handling.

Registration Cost:

AWPCA Members	\$45
Others	\$55

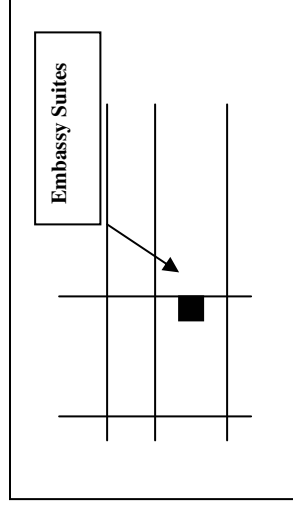
The cost of lunch and handouts is included in the registration fee.

The seminar will begin at 8:00 a.m. Please check in between 7:30 a.m. and 8:00 a.m. The seminar will finish at approximately 4:30 p.m.

Please send in the registration form as soon as possible. Registration is limited to 50 people. The deadline for sign-up is March 30, 1992.

If you have any questions please call Brian Peck at 263-9500

SEMINAR LOCATION:
EMBASSY SUITES TEMPE
4400 S. Rural Road
(602) 897-7444



Registration Form

Name	_____	Phone Number	_____
Employer	_____		
Title or Position	_____		
Address	_____		
City/State/Zip	_____		
Make checks payable: Arizona Water and Pollution Association Brian Peck c/o John Carollo Engineers 3877 N. Seventh Street, Suite 400 Phoenix, AZ 85014			

EXHIBIT 3(b)

SAFETY PUBLICITY

The Illinois Clarifier is the Association's quarterly newsletter which is send to each member. Although safety articles may appear in any of these quarterly publications, the Fall issue each year is specifically designated as the "SAFETY ISSUE". Special emphasis is given in this issue to soliciting Burke Award Nominees. Starting in 1992, the Summer Clarifier became the Safety issue to allow for more time to recruit Burke Nominations and to match up with our Association's March Annual meeting date.

WEF ANNUAL CONFERENCE Dateline: NEW ORLEANS

This year's WEF annual conference was certainly a case of "so many activities, so little time." The WEF has such vitality that it was impossible for me to keep up with all of the programs, exhibits, social functions and committee meetings. I would, however like to mention briefly some of the things which are going on at the national level.

GOVERNMENT AFFAIRS:

Three MA's presented success stories. The New England association holds an annual congressional breakfast in Washington, DC. They invite a prominent speaker and invite congressional representative and their staff. Prior to the meeting, they draft a position paper on the topic to be presented and distribute copies at the breakfast.

The New York association presents topical seminars which are held jointly with other organizations. In order to assure attendance by the local regulators, they select the day based upon the availability of the local commissioner. A portion of the program is reserved for a debate of the regulated community vs. the regulator.

(continued on page 6)

SAFETY COMMITTEE GOES ON THE ROAD

A system of ideas referred to as "Total Quality Management" has been suggested as a method to implement programs within the IWEA. The concept, as you may already know, is a customer first approach whose commandments include breaking down barriers, instituting a program of education and adopting a new philosophy. If this is the case, the IWEA Safety Committee is way ahead of the game.

It started over a year ago when the Safety Committee Chairman, Rich Schultz, expressed concern on the direction the Committee was headed. It had long been a tradition that a day long safety symposium was held in a different mid-sized Illinois town annually. However, this practice was starting to stagnate. Some of the talks appeared redundant. In one particular symposium most of the speakers didn't speak, they just plopped a video in the VCR. But what really concerned Rich was no matter where the symposium was held he kept seeing the same faces in attendance. One was led to believe that either many people were not aware or were not interested. Perhaps, one problem was the lack of travel ability, especially in these times when municipal budgets are held in check.

As a result, a new practice was formed. Instead of having operators come to the Safety Committee, the Committee was going to come to them; sort of grass-roots thing as President Bush would say. Local operators groups were contacted. IWEA Safety Committee members themselves would be available to give safety presentations in the local areas. Furthermore, the local groups would have some input in the subject matter.

(continued on page 7)

ANNUAL SAFETY ISSUE
more inside

IWPCA THIRTEENTH ANNUAL CONFERENCE

The thirteenth and last conference under the banner of Illinois Water Pollution Control Association was attended by one of the largest crowds and saw some new features to boot. The meeting was held for the first time at Indian Lake Resort in Bloomingdale. From comments overheard by attendees, it may not be the last time. The program, accommodations, exhibits and meeting rooms were an unqualified success.

President Charles Muchmore convened the Annual Meeting on the morning of the first day. John Martin, Chairman of the Illinois Pollution Control Board gave the Keynote Address. Charles Kaiser WEF Past President was the Association's guest and WEF representative. The Annual Business Meeting closed the first morning with a new slate of officers and a new organization name. Brent Manning, Illinois Department of Conservation Director, was the first day luncheon speaker. The afternoon saw the inauguration of a new conference feature: a panel discussion entitled "A Bird Can't Fly With One Wing." Cecil Lue-Hing moderated this unique program of involved experts in various areas of pollution control.

Day two of the conference was Operator's Day with Symposia on Combined Sewer Overflow and Stormwater, Wastewater Treatment, Odor Control, Research, Sludge Management and Water Quality. The exhibitors hosted a noon luncheon and President Muchmore hosted the Annual Banquet in the evening. The final morning presented two Symposia: Laboratory and Industrial Waste.

FIRST TIME PROGRAM SESSION STIRS COMMENT

The first day afternoon panel discussion entitled "A Bird Can't Fly With One Wing" was the brainchild of the Program Committee Chairman Prakasam Tata. Thanks to many of his fellow workers a MWRDGC and colleagues at ITT and ERTC, the session was well attended and provoked comment and discussion.

Dr. Tata introduced the program session stating that we must..."realize that our profession cannot operate alone. We are like a bird with one wing if we fail to interact with others that have an interest in the outcome of our actions". The participants, therefore, each represented a different element of the environmental process. Kathleen Meany, a Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) Commissioner represented the public action and political part of the equation. Ken Noll, IIT Professor and Department of Environmental Engineering, spoke to the Academics. Don Anderson of SIU-E Environmental Resources Training Center approached the topics from the operational side. Frank Dalton, General Superintendent of the MWRDGC embodied the technological and engineering approach. All represented their point of views well. Cecil Lue-Hing moderated the opening and general sessions. Audience and panel discussion was stimulating within the break out sessions. Audience and panel discussion was stimulating within the break out sessions and in the general session that closed the program.

My self evaluation and audience critique afterwards brought a wealth of varying comment and suggestions. All ends of the spectrum were covered. Some felt the panel should be repeated annually while others thought biannually was enough. A welcome program change and focus of this session were appreciated to many. Audience participation and the discussion among the audience and the panel members was enjoyable to some. Other comments keyed on "participation", "involvement", "idea sharing" and "group discussion without presentations".

AWARD WINNERS AT THE 1992 CONFERENCE

by Greg Brunst, Chairman, Awards Committee

WILLIAM D. HATFIELD AWARD—This award is presented by the Federation to the Association member who exemplifies the art of record keeping and reporting of data. This year's recipient Richard Eick, Plant Operations Manager at the Rock River Water Reclamation District, is a stellar example of concise operational reporting. His written annual reports on both plant operations and pretreatment criteria plus his involvement with the local Chamber of Commerce assures that information flows smoothly in both directions.

ARTHUR SIDNEY BEDELL AWARD—This award is presented by the Federation to the Association member who has proven to be a valued asset by giving of both time and talent. This year's recipient, Gregory Cargill, Assistant Engineer of Plant Operations for the MWRDGC, is just such an individual. For the past four years Greg has chaired the Association's Educational Committee. Through his efforts the committee has taken water environmental issues into many grade and high schools. These efforts have had particular impact on student recipients awarded Sylvanus Jackson Scholarships presented by the Association the past four years. Greg's commitment continues as he was just elected to serve on the Executive Committee as First Vice President.

GEORGE W. BURKE JR. FACILITY SAFETY AWARD—This award is presented by the Federation to member facility which has a proven safety program. This year's recipient was the Greater Peoria Sanitary and Sewage Disposal District. Peoria's aggressive program which includes monthly safety meetings, regularly scheduled safety presentations and videos plus safety self analysis has earned them this year's award.

KENNETH C. MERIDETH--This award is named in honor of Ken Merideth, former Manager of the IEPA Regional Office in Peoria. It is presented by the Association to an individual in the State of Illinois who exemplifies operator professionalism. This year's winner of the Merideth traveling trophy is Michael Botts, Plant Superintendent, City of West Chicago WWTP. The process control skills employed at his facility and Mike's past affiliations with the local and state operator groups truly make him an operators' operator.

BEST PAPER—This award is given by the Association to the person or persons presenting the most timely, informational paper at the previous year's conference. The Best Paper Award for the 1991 Conference was given to Thomas Granato for his presentation of the co-authored paper entitled "Prediction of Phototoxicity and Uptake of Metals."

BEST STUDENT PAPER—This is a two part award the first of which is presented to the student authoring and presenting the paper. The second part of the award is presented to the school which the student currently attends. This year's Best Student Paper went to Jennifer Becker, a student enrolled in the Masters program for Environmental Engineering at the University of Illinois. Her paper, co-authored with David Freedman entitled "Biodegradation of Chloroform under Anaerobic Conditions" was judged to be the best student effort presented during the 1992 Conference.

IWEA MEMBER CHOSEN

Cecil Lue-Hing, D.S.C., P.E., Director Research and Development, Metropolitan Water Reclamation District of Greater Chicago was recently chosen to present the Simon W. Freese Environmental Engineering Lecture at the American Society of Civil Engineering on (ASCE) National Conference on Environmental Engineering on August 2, 1992 in Baltimore, Maryland. His presentation was entitled "History as a Guide to Predicting Trends in Municipal Wastewater Technology."

The presentation focused on predicting the wastewater treatment technologies which would be used in the year 2025. These predictions were based upon a retrospective of the development of wastewater treatment technology development in the United States as well as predictions about how this technology will develop in the future.

The Simon W. Freese lecture was established by the Environmental Engineering Division of the ASCE and endowed by the firm of Freese & Nichols in honor of the their distinguished partner, Simon Wilke Freese. This lecture was instituted by the ASCE's Board of Direction on November 5, 1975.

Each year, upon the recommendation of the Executive Committee of the Environmental Engineering Division, the Executive Director will invite a distinguished person to prepare the Freese lecture for presentation at an appropriate meeting of the ASCE. Typically, this is the national conference. The lecturer is selected without restrictions as to ASCE membership or nationality. Past lecturers have included notable contributors to the field of environmental engineering.

LAB SKILLS FOR WASTEWATER OPERATORS

Gayle O'Neill, IWEA Second Vice President

The IWEA Laboratory Committee in cooperation with the Central States Laboratory Committee is preparing laboratory workshops for wastewater operators. The workshop will have a lecture session as well as a hands-on laboratory session. The first workshop is scheduled for Wednesday, March 10, 1993 at Kishwaukee College in Malta, Illinois (near DeKalb). The parameters to be covered are BOD and Solids. The cost is \$40, which includes lunch and a workbook.

Due to the hands-on nature of the workshop, registration is limited to 40. Registrations will be handled on a first come, first served basis. You may use this form to register. If you have any questions, they may be directed to David Kaptain at 706-742-2068.

The second workshop is planned for late May or early June, 1993. The topics will pH, Residual Chlorine and Ammonia.

REGISTRATION FORM LAB SKILLS FOR WASTEWATER OPERATORS WEDNESDAY, MARCH 10, 1993

NAME _____

ADDRESS _____

PHONE _____

Please mail to: David J. Kaptain
Fox River Water Reclamation District
P.O. Box 92
Elgin, IL 60121-0092

Make checks payable to: Central States WPCA

NOTES ON 65TH ANNUAL CONFERENCE

...continued from page 3

annual conference. This sprang from seeing that other states had successful social events to bring their members and friends closer together. I think it's a great idea and propose it, via this article, to our Executive Committee for action.

I missed not having an annual Exec. Meeting in New Orleans. I think this the first time that we didn't have one. Again it serves to bring us together to discuss issues that become visible during the conference or that need further discussion or action and another chance to know our fellow Executive Committee members better.

DIRECTOR POSITION DESCRIPTION—Your Directors now have a newly revised position description to try and adhere to. It's a step up in making sure that our members are getting all the correct activity they deserve.

SUMMARY—As you can tell, the conference was a huge success, in spite of the hot & very humid weather. Thank goodness for air conditioning. Next year's conference is October 3-7 in Anaheim, California. Hope to see you there.

SAFETY COMMITTEE GOES ON THE ROAD

...continued from page 1

The first presentation was given on November 11, 1991 to the Heart of Illinois Operators Association in Peoria. Eighty four miles west on Route 24 in Gilman, despite an enormous blizzard, a presentation was given to the MIVS operators group on January 15, 1992. Two days later, IWEA was represented at a safety meeting sponsored by the Village of West Frankfort for operators in the southern area of the State. From the Big Muddy River to the Rock River, the next stop was Rock Falls, in northwest Illinois where the MissRock Operators Association was given a talk on "Traffic Control and Trenching Safety."

The latest presentation was given in August to the Fox Valley Operators Association, at the Elburn Wastewater Treatment Plant. The topic was Safety Program Development. That was of special concern to local operators since many times they are the ones who have to sell the idea to their own community.

So now it can be said that the IWEA Safety Committee has adopted TQM methods. It reached out to its customers who are association members and wastewater treatment plant operators. It broke down barriers, catering to the local operators groups. It instituted a program of education with its presentations and it adopted a new philosophy by breaking tradition. In accomplishing these objectives, the Committee automatically adopted another TQM commandment—constant improvement. However, it's a bottom-up approach. If any local operators groups desire a presentation, have ideas for subject matter, or would like to be part of a presentation, do not hesitate to contact Rich Schultz at the Kankakee Metro Wastewater facility, Utility Blvd., Post Office Box 588, Kankakee, IL 60901 (815/933-0446).

The Committee hopes to hear from you, no matter where you may be.

Chris Kallis, IWEA Newsletter Committee.

IWPCA SAFETY COMMITTEE ROAD SHOW

By Rich Schultz, Safety Committee Chairman

In an attempt to bring the important message of SAFETY to a wider audience, the Safety Committee will be contacting regional operators groups and offering to present several programs on safety topics to their members at the operator groups regular meeting. Two or more committees members will attend the meetings and present programs on one of the following topics:

1. Lock out—Tag out Procedures
2. Safety Program Development
3. Collection Systems Maintenance Safety
 - a. Manhole Entry/Confined Safety
 - b. Traffic Control
 - c. Trench Safety

Additional topics will be developed with time. Any suggestions as to other issues will be gladly accepted. Let us know what you want to know more about with regards to safety! All operators groups, etc. are urged to contact the IWPCA Safety Committee to arrange for a program. Please contact:

Rich Schultz
Kankakee Metro Waste-
Water Utility
P.O. Box 588
Kankakee, IL 60901
815/933-0446
815/933-8762 (fax)

George Stevens
Water Pollution Control Dept.
City of Moline
619 16th Street
Moline, IL 61265
309/797-0750

1991-1992 NEWSLETTER COMMITTEES

The following members of IWPCA have earned a place on the newsletter committee within the year. As has been the custom, these people have made at least three contributions to the ILLINOIS CLARIFIER in order to be on the committee. It is with pleasure that we list their names below:

Jack Adam, Rockford	Dennis Connor, Rochelle
Herb Anderson, W. Chicago	Hal Goldsmith, Skokle
Mike Botts, W. Chicago	Chris Kallis, Maywood
Bill Busch, Chatham	Charles Muchmore, Carbondale
Greg Cargill, Palos Heights	Rich Shultz, Kankakee
Harris Chlen, Rockford	Prakasam Tata, Cicero

Special Thanks must go to two individuals that have made integral contributions to the production and distribution of the CLARIFIER. Thanks go to Cheryl Martens of Rockford and Dianne Bowie, West Chicago.

The following also made contributions through the years:

Greg Brunset	Gene Forster	Andy Ftacek
Mark Grzegorek	Chris Hickman	Mary Johnson
Tim Kluge	Lloyd Lamberton	Bruce Rodman
Pat Schatz	George Stevens	Ken Watson
Dave Zenz	Larry Ziemba	

The gratitude and thanks of the Newsletter Committee is expressed to all of the above. Without their help and concern for the organization and its membership, there would be no ILLINOIS CLARIFIER.

DEADLINE SUMMER ISSUE ILLINOIS CLARIFIER: APRIL 15, 1992



Illinois Water Pollution Central Association
City of West Chicago
Attn: Michael Botts
475 Main St. Box 488
West Chicago, IL 60185
(708) 283-2261

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THIRTEENTH ANNUAL CONFERENCE
INDIAN LAKES RESORT
BLOOMINGDALE
March 10-12, 1992

RICHARD A SCHULTZ
KANKAKEE METRO WW UTILITY
1600 W BROOKMONT BLVD POB 588
KANKAKEE, IL 60901

EXHIBIT 4(a)

Safety Information Library

The California Water Pollution Control Association maintains a safety information library with Mark Niver, at the City of San Jose.

Included in the application package is a listing of the resources available-most are free of charge, but there are some videos available for a \$5.00 rental fee.

Both lists have been included.

**CITY OF SAN JOSE
DEPT. OF WATER POLLUTION CONTROL
TRAINING SECTION
SAFETY MEDIA**

- 1) ENGLISH CHLORINE EXPERIMENT, VHS
- 2) "BACK TALK?" BACK CARE, VHS
- 3) CONFINED SPACES, LAMBERT-ROGERS, VHS
- 4) SHAKE, RATTLE, ROLL EARTHQUAKE PREPAREDNESS, VHS
- 5) HEARING SAFETY, VHS
- 6) EYE SAFETY, VHS
- 7) HAZARD COMMUNICATION STANDARD, VHS
- 8) CHLORINE SAFETY (IN HOUSE PRESENTATION), VHS
- 9) OVERVIEW OF THE RIGHT-TO-KNOW-LAW, VHS
- 10) CHEMICAL SAFETY, HANDLING FIRES AND EXPLOSIVE, VHS
- 11) AMERICAN RED CROSS "BART" CPR VIDEO, VHS
- 12) AMERICAN RED CROSS ADULT CPR VIDEO, VHS
- 13) AMERICAN RED CROSS BASIC LIFE SUPPORT, VHS
- 14) AMERICAN RED CROSS COMMUNITY CPR, VHS
- 15) AMERICAN RED CROSS FIRST AID VIDEO, VHS (120 MINUTES)
- 16) TEN GREAT SAFETY IDEAS FOR SUPERVISORS, LAMERT-ROGERS,VHS
- 17) NATIONAL SAFETY COUNCIL DEFENSIVE DRIVING VIDEO: HAPPY BIRTHDAY, VHS
- 18) NATIONAL SAFETY COUNCIL DEFENSIVE DRIVING VIDEO: DAVIDS DRIVING SCHOOL, VHS
- 19) ABC'S OF PORTABLE FIRE EXTINGUISHER'S, VHS
- 20) FIGHTING FIRE WITH PORTABLE FIRE EXTINGUISHER'S, VHS
- 21) DUPONT FORKLIFT SAFE OPERATION VIDEO: LOADS AND EFFECTS, VHS
- 22) DUPONT FORKLIFT SAFE OPERATION VIDEO: LOADS AND EFFECTS, VHS
- 23) DUPONT FORKLIFT SAFE OPERATION VIDEO: MAINTAINING CONTROL, VHS
- 24) DUPONT FORKLIFT SAFE OPERATION VIDEO: LIFE TRUCK OPERATION, VHS

- 25) ELECTRICAL LOCKOUT, VHS
- 26) OXYACETYLENE WELDING SAFETY, VHS
- 27) ELECTRICAL SAFETY, VHS
- 28) SURVIVING THE COLD, VHS
- 29) PACIFIC BELL SURVIVAL GUIDE
- 30) THE LAW/HAZARDOUS MATERIALS AND THE RIGHT TO KNOW, VHS
- 31) RCRA INCIDENT RESPONSE, VHS
- 32) RCRA HAZARDOUS WASTE TRAINING, VHS
- 33) BIO PAK PROMO, VHS
- 34) SLIPS AND FALLS, VHS
- 35) MINIMIZING BACKSTRAIN ON THE JOB, VHS
- 36) SAFE CHEMICAL HANDLING PARTS I&II, VHS
- 37) HAND SAFETY, VHS
- 38) POWER AND HAND TOOL SAFETY, VHS
- 39) FORKLIFT SAFETY, VHS
- 40) BACK INJURY PROTECTION, VHS
- 41) BIO PACK OPERATION AND MAINTENANCE (IN-HOUSE), VHS
- 42) THAT'S THE RULE, VHS
- 43) MSA SCBA (IN HOUSE), VHS
- 44) AT YOUR FINGERTIPS MSDS (SUNNYVALE), VHS
- 45) HAZARDOUS COMMUNICATION TRAINING SUPERVISORS (IN-HOUSE PRESENTATION), VHS
- 46) CHEMICAL MANUFACTURERS ASSOCIATION: FIRST ON THE SCENE, VHS
- 47) CHEMICAL MANUFACTURERS ASSOCIATION: TEAMWORK, VHS
- 48) SAFETY PARTNER: MATERIAL SAFETY DATA SHEETS, NUS TRAINING CORPORATION, VHS
- 49) SAFETY PARTNER: SARA TITLE III, NUS TRAINING CORPORATION, VHS
- 50) SAFETY PARTNER: INTRODUCTION TO HAZCOM, NUS TRAINING CORPORATION, VHS

- 51) CL2 SAFETY, WPCP, VHS
- 52) ELECTRICAL WELDING SAFETY, T.A.T., VHS
- 53) AMERICAN RED CROSS: FIRST AID, VHS
- 54) AMERICAN RED CROSS: SKILLS REVIEW, TAPE 1, VHS
- 55) AMERICAN RED CROSS: BLS: LEARNING. PROF. SKILLS, TAPE 2, VHS
- 56) AMERICAN RED CROSS: CPR-INFANT & CHILD, VHS
- 57) AMERICAN RED CROSS: CPR, 1986, THANCO FILMS, VHS
- 58) DEFENSIVE DRIVER..."WHO ME?" NATIONAL SAFETY COUNCIL, VHS
- 59) SLIPS, TRIPS & FALLS, SUMMIT TRAINING SOURCE, (12 MINUTES), VHS
- 60) SURVIVING THE BIG ONE: HOW TO PREPARE FOR A MAJOR EARTHQUAKE, (58 MINUTES), VHS
- 61) EARTHQUAKE... BEING PREPARED FOR THE EMERGENCY, (30 MINUTES), VHS
- 62) HAZARD COMMUNICATION: THE CHEMICAL WORKER'S RIGHT TO KNOW, SAVANT AUDIOVISUALS, INC. 1984 (14 MINUTES), VHS
- 63) CHEMICAL SAFETY MEASURES, SPILLS, AND DISPOSAL: SAVANT AUDIOVISUALS, INC. 1988, (17 MINUTES), VHS
- 64) HANDLING HAZARDOUS CHEMICALS, SAVANT AUDIOVISUALS, INC., 1987,1988, (17 MINUTES), VHS
- 65) PESTICIDE SAFETY-EMPLOYEE TRAINING, ADVANCED PESTICIDE CONTROL TECHNOLOGY, VHS
- 66) SAFETY TRAINING FOR SEWER WORKERS-NATIONAL ASSOCIATION OF SEWER SERVICES CO. 1984, (4 TRAYS), SLIDE TAPE
- 67) BIO PAK OPERATION AND MAINTENANCE (IN-HOUSE), SLIDE TAPE
- 68) "A" KIT INSTRUCTIONS FOR 100 # AND 150 # CL1 CYLINDERS, SLIDE TAPE
- 69) "B" KIT INSTRUCTIONS FOR ONE TON CL2 CYLINDERS, SLIDE TAPE
- 70) "C" KIT INSTRUCTIONS FOR CL2 TANK CL2 CARS, SLIDE TAPE
- 71) SURVIVE AIR, FIVE MINUTES AND SIX HOUR BOTTLE OPERATION, SLIDE TAPE
- 72) WPCF AWARENESS; THE KEY TO SAFETY, SLIDE TAPE
- 73) WPCF INTERMEDIATE COURSE, SECTION ON SAFETY, SLIDE TAPE
- 74) FIRE EXTINGUISHER'S CAN BE DANGEROUS, SLIDE TAPE

- 75) OPERATING ENGINEERS SAFETY AND HEALTH HAZARDS IN WASTEWATER TREATMENT PLANTS (3 TRAYS), SLIDE TAPE**

CWPCA VIDEO TAPE LIBRARY TAPES FOR RENT--\$5

SAFETY

1. **EXPOSURE TO BITES AND STINGS—DR. H. RENOLLETTY, 11/85**
2. **INTRODUCTION TO CPR- P. MURPHEY, 11/85**
3. **PREVENTATIVE MAINTENANCE FOR SAFETY- M. POPICHAK, 11/85**
4. **ANATOMY OF AN ACCIDENT- LAMBERT AND ROGERS, 5/85**
5. **WORK SITE TRAFFIC CONTROL- R. BECK, 5/84**
6. **CHEMICAL DEPENDENCIES- F. FIX, 11/85**
7. **SAFETY TRAINING FOR SEWER WORKERS- NATIONAL ASSOCIATION CF SEWER SERVICE COMPANY- 1984 (SLIDE TAPE)**
8. **ALL THAT SAFETY JAZZ-SANTA BARBARA, F.F. 4/87**
9. **PREPARING FOR EARTHQUAKES-J. FORAKER, 4/87**
10. **AIDS IN THE WORK PLACE- DR. L. MORSE, 1/88**
11. **EARTHQUAKE PREPAREDNESS-K. PAXTON 1/88**
12. **SACRAMENTO CHLORINE LEAK RESPONSE TEAM DEMONSTRATION-11/87**
13. **OSHA HAZARD COMMUNICAITON-D. HERNANDEZ, 1/88**
14. **SUPERVISORY RESPONSIBILIITY FOR WORKER'S SAFETY ON THE JOB-N. RYAN, 1/88**
15. **COMMENTARY DRIVING-CENTRAL CONTRA COSTA SANITARY DISTRICT, F.F. 4/88**
16. **LEGAL ISSUES FOR MANAGERS-PETER OLSON, CITY OF SAN MATEO, 5/88**
17. **CASE STUDY: CHEMICAL MIXING ACCIDENT AT SAN FRANCISCO-VIC VON ASPERN, CITY AND COUNTY OF SAN FRANCISCO 5/88**
18. **EFFECTIVE SAFETY MANAGEMENT PROGRAMS-MIKE RAVERA, CHEVRON RESEARCH COMPANY, 5/88**
19. **PLANNING FOR SAFETY-NANCY GEORGE, CITY OF COUNTY OS SAN FRANCISCO, 5/88**

23. **ELECTRICAL SAFETY PRACTICES, TOM CASULAS, 3/88**
24. **HAZARDOUS WASTE PACKAGING AND LABELING-ERM=WEST/J. FERGUSON, F.F. 4/89**
25. **CHLORINE TANK CAR HOOK-UP AND TRANSFER-D. SLOAN, J. REDMOND, F.F. 4/89**
26. **CHLORINE RESPONSE AWARENESS PROGRAM-D. SLOAN, J. REDMOND, F.F. 4/89**
27. **STOP/THINK/DO IT RIGHT-K. WIMBERLY, F.F. 4/89**
28. **MINE SAFETY APPLIANCES: HAZARDOUS CHEMICALS, 8/8/89**
29. **HOW TO USE THE CHLORINE INSTITUTE "A" KIT FOR 100 & 150# CYLINDERS, CHLORINE INSTITUTE.**
30. **HOW TO USE THE CHLORINE INSTITUTE "B" KIT FOR 1 TON CYLINDERS, CHLORINE INSTITUTE.**
31. **HOW TO USE THE CHLORINE INSTITUTE "C" KIT FOR RAILROAD TANK CARS & TRUCKS, CHLORINE INSTITUTE.**
32. **TRAINING: SETTING GOALS AND OBJECTIVES-WALTER WALSH, SBSA, 9/12/91, DEPARTMENT, 9/12/91, 45 MIN**
33. **CONFINED SPACE RESCUE TRAINING-STEVE CAVALLERO, REDWOOD CITY FIRE DEPARTMENT, 9/12/91, 30 MIN**
34. **DRUG TRAINING IN THE WORK PLACE-LARRY COMPNION, CITY OF SAN JOSE, 9/12/91, 30 MIN**
35. **SAFETY TRAINING THROUGH COMMUNICATION-AKEXIS HALSTEAD, CITY AND COUNTY OF SAN FRANCISCO, 9/12/91, 40 MIN**
36. **SAFETY TRAINING IN RESEARCH-CARL WALKER, IBM, 30 MIN**
37. **MANAGEMENT'S RESPONSIBILITY TO INSURE TRAINING IN THE WORKPLACE-ED HANES, CITY OF SUNNYVALE, 9/12/91, 30 MIN**
38. **HOW TO BUILD AND AWARD WINING SAFETY TRAINING PROGRAM- REANDY REEB AND BIFF SCHAEFER, CITY OF PALO ALTO, -/12/91, 30 MIN**

The Arizona Water and Pollution Control's Wastewater Safety Committee has compiled a library of VHS formatted videotapes of selected safety and other topics related to wastewater and water activities. These tapes represent an important resource developed by your association for your benefit.

To view tape, please fill out the order form on the back. There is a \$5.00 mailing and handling fee for each tape, with a maximum of two (2) tapes per loan. Tapes must be returned within.

We would like to thank those groups who have contributed tapes to the library
Arizona Public Service Company
Pima County Wastewater Works Association
Water Environment Federation (WEF)
U.S. Environmental Protection Agency.

**AWPCA VIDEO LENDING LIBRARY
ORDER FORM**

Name: _____
Phone #: _____
Organization: _____
Address: _____

Video Title(s):
1. _____
2. _____

For each videotape requested, please
enclose a check or money order payable
to AWPCA, and mail to:

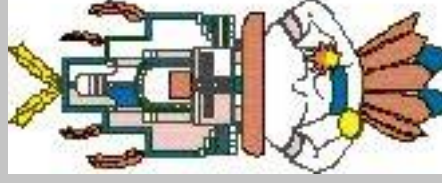
AWPCA Wastewater Safety
Committee
c/o Robert Shepherd
City of Yuma
155 14th Street
Yuma, AZ 85364
(602) 783-7600

(if requested tape is out, it will be sent
as soon as it is available.)

I agree to return the videotape(s), at my
expense, within two weeks after I
receive them to AWPCA Wastewater
Safety Committee.

Signature: _____
Date: _____

**ARIZONA
WATER AND
POLLUTION CONTROL
ASSOCIATION**



VIDEO LENDING LIBRARY

**EXHIBIT
4(b)**

VIDEO TITLES

- | | | |
|---|---|---|
| 1. HAZARD COMMUNICATION-WHY BOTHER?
(14 minutes) | 14. STREETWISE: "WORKING SAFELY IN TRAFFIC"
(22 minutes) | 29. BOMB RECOGNITION
(18 minutes) |
| 2. CHLORINE RESPONSIVENESS AWARENESS PROGRAM
25 minutes) | 15. FORTY MINUTES: A LIFE-SAVING EXPERIENCE IN TRENCHES
(40 minutes) | 30. ACTIVATED SLUDGE UNDER THE MICROSCOPE
(25 minutes) |
| 3. SAFE RESCUES IN CONFINED SPACES
(13 minutes) | 16. PLANNING FOR EMERGENCIES-INCLUDING AWWA M19 MANUAL (AWWA)
(21 minutes) | 31. GENERAL CONCEPTS OF ACTIVATED SLUDGE
(20 minutes) |
| 4. CONFINED SPACE SAFETY AND RESCUE OPERATIONS
(22 minutes) | 17. IF YOU WANT IT DONE RIGHT-JOB PLANNING
(19 minutes) | 32. WATER-GIFT OF LIFE
(50 minutes) |
| 5. PERSONAL PROTECTION" "THAT'S WHAT FRIENDS ARE FOR"
(20 minutes) | 18. IT COULD HAPPEN IN A FLASH
(6 minutes) | 33. WATER QUALITY BASED APPROACH TO POLLUTION CONTROL
(EPA/1991)
(16 minutes) |
| 6. NEW EMPLOYEE SAFETY ORIENTATION
(22 minutes) | 19. THE CARE AND USE OF RUBBER GLOVES AND HOW TO WORK SAFELY WITH ELECTRICITY
(53 minutes) | 34. WATER QUALITY STANDARDS AND 401 CERTIFICATION
(EPA/1990)
(16 minutes) |
| 7. COMMUNICATION IS THE KEY
(8 minutes) | 20. APS GROUNDING PRACTICES
(60 minutes) | 35. INTRODUCTION TO WATER QUALITY STANDARDS
(EPA/1990)
(14 minutes) |
| 8. THE SIXTEEN MOST COMMON OSHA CITATIONS AND HOW AVOID THEM
(20 minutes) | 21. URD CABLE PULLING EQUIPMENT AND METHODS IN USE AT ARIZONA PUBLIC SERVICE
(12 minutes) | 36. DEVELOPMENT OF WATER QUALITY CRITERIA AND ITS RELATIONSHIP TO WATER QUALITY STANDARDS
(EPA/1991)
(14 minutes) |
| 9. WASTEWATER EQUIPMENT LOCKOUT PROCEDURE
(11 minutes) | 22. GUIDE TO GROUNDING
(15 minutes) | 37. ANTIDegradation POLICY: A MEANS TO MAINTAIN AND PROTECT EXISTING USES AND WATER QUALITY
(EPA/1990)
(14 minutes) |
| 10. SAFETY TRAINING FOR SEWER WORKERS (NASSCO)
(36 minutes) | 23. ARIZONA BLUESTAKE
(35 minutes) | |
| 11. WORKER SAFETY IS A FULL TIME JOB
(11 minutes) | 24. BUCKET RESCUE
(12 minutes) | |
| 12. HEARING CONVERSATION: "IT SOUNDS GOOD TO ME"
(20 minutes) | 25. SCAFFOLDING SAFETY
(36 minutes) | |
| 13. STAYING, COOL, CALM AND COLLECTED WITH SNAKES AND INSECTS
(40 minutes) | 26. JUST A FEW SECONDS
(14 minutes) | |
| | 27. WILL YOUR JOB BURN
(18 minutes) | |
| | 28. COTTON OR POLYESTER-IS THERE A DIFFERENCE?
(10 minutes) | |

Exhibit 5(a)



Arizona Water & Pollution Control Association

c/o PIMA COUNTY WASTEWATER MANAGEMENT DEPARTMENT
201 N. Stone Avenue, 8th Floor • Tucson, Arizona 85701-1207 • Phone (602) 740-6500

February 18, 1993

Dear Survey Participants:

Enclosed you will find the 1993 Arizona Water and Pollution Control Safety Award Survey for wastewater operations. The questionnaire is self-explanatory. If the division of collection/treatment in your utility is such that you have data on only one of the two, please forward a copy of this letter and survey to the operation not represented by your answers. The information obtained for the survey is for committee use only and will be used to promote safety via the AW&PCA. Data of individual operations will remain anonymous. Safety award winners will be chosen from submittals and recognition will be given to those operations at the Annual AW&PCA Conference to be held in Tucson, Arizona, from May 4-7, 1993.

We sincerely hope that you will take a moment of your time to complete the 1993 safety award questionnaire. The Safety Award Committee welcomes your comments and suggestions for improving the questionnaire or the safety award program. Many thanks for your cooperation.

ATTENTION:

The Safety Committee will be conducting a special session on Emergency Response Planning at this year's Annual Conference. This presentation will take place Tuesday morning, May 4., from 8:30 a.m. till noon, and will cover the OSHA Standards 1910.38 and 1901.120. Speakers will include individuals from the Arizona Industrial Commission, Pima County Risk Management, and the City of Nogales Fire Department with a mini-workshop at the conclusion. Please check the upcoming AW&PCA newsletters for more details or call me at 744-4236.

Yours truly,

David L. Garrett, Chairman
AW&PCA Wastewater Safety Award Committee

Committee Members:

Vicki Scott-City of Yuma
Robert Shepherd-City of Yuma
Patricia Nelson-APS
Linda Christopherson-Arizona Industrial Commission

attachment



Arizona Water & Pollution Control Association

WASTEWATER OPERATIONS SAFETY AWARD SURVEY

This questionnaire serves as a reminder to wastewater treatment plants and collection systems of the importance of safety in daily operations. Please answer the questions as accurately and completely as possible. The information you provide is used to plan and implement statewide safety programs and supply information to system owners, operators, and AW&PCA members.

Please mail the completed form no later than March 29, 1993 to:
Ina Road WPCF, 7101 North Casa Grande Hwy., Tucson, AZ 85743
Attention: David Garrett

I. GENERAL INFORMATION

Name of Operation _____ Treatment _____ Collection _____

Location _____

Mailing Address _____

Supervisor _____ Title _____

Briefly describe your operation. (i.e.-Wastewater plants-list treatment processes utilized; Collection systems-list duties performed.)

System No. _____ Grade (ADHS) _____

Average Daily Flow (mgd) _____ Design Flow (mgd) _____

Population Served _____ Miles Sewer Maintained _____

How many employees of your operation are members of AW&PCA _____

Will a representative of your operation be present at the AW&PCA conference May 4-7, 1993? _____

II. ACCIDENT REVIEW

7. Number of work-related injuries not resulting in lost time

*Loss of one full work day, not counting day of injury.

1. Number of Full-time Employees
2. Number of Part-time Employees
3. Man hours per year (part time)
4. Number of lost time*, work related injuries
5. Number of days lost to work related injuries
6. Number of work related fatalities

Block A

Block B

Treatment Plant	Collection System	Combined Treat Collection

Briefly describe each accident/injury and the steps taken to prevent reoccurrence:

III. SAFETY PROGRAM

Does your operation have a formal safety program including the following? **

1. Written safety manual specifically designed for your operation.
2. Regular safety meetings.
3. Designated safety meetings.
4. Review process for incidence of injury and non-injury type accidents.
5. Do any of you personnel have valid first aid certifications?
6. Are local emergency service agencies aware of the hazardous aspects of your operation and do they make routine inspections?
7. Equipment available and drills performed:
 - a. Fire extinguishers
 - b. Safety harness and rope
 - c. Row boat, life preserver.
 - d. Chlorine cylinder emergency repair kit.
 - e. Self contained breathing apparatus.
 - f. Hazardous atmosphere detectors.
8. Are you interested in obtaining safety training materials or receiving assistance with your safety program?

YES	NO

**Please give a brief explanation of any "no" answers. Attach additional sheets if necessary.

Person to contact concerning information provided:

Name: _____ Title: _____

Address: _____ Phone: _____

Completed By: _____ Date: _____

Thank you

COMMITTEE: WPCF/AW&PCA Safety Award (Membership Services)

Criteria for Awarding WPCF-AW&PCA Safety Awards

The purposes of the WPCF-AW&PCA Award of Merit and Award of Honor is to recognize the efforts toward safe operating practices employed in wastewater treatment plants within the State of Arizona.

Questionnaires are mailed to plants requesting information concerning the safety programs used and details of accidents incurred during the calendar year.

These questionnaires should request the following information:

1. Number of employees.
2. Number of man-hours worked.
3. Type of plant.
4. Arizona Health Department grade of plant
5. Flow in G.P.D.
6. Number of accidents.
7. Number of days lost due to accidents.
8. Is a formal safety program in use?
9. Description of each accident and steps taken to prevent recurrence.

Plants are divided into two grades according to Arizona Health Department classifications. Grades I and II are rated as "B" and III and IV are rated as "A". "A" plants are allowed one day lost per man year worked as a maximum lost time before receiving. "B" plants must have at least on half of a man-year worked, with a maximum of one day lost before an award is given, and they may accumulate the time over more than one year in order to qualify.

The Award of Merit will be given to each plant that has less than the maximum number of lost days.

The Award of Honor will go to those plants that have no accidents during that year with a minimum of ten man-days worked and these may be accumulated over successive years.

Questionnaires should be mailed as soon after the first of the year as possible and results reported to AW&PCA Board of Directors at their March meeting each year.

Only those plants with formal safety programs are eligible for either award.

COMMITTEE:	AW&PCA Safety Award Wastewater (Membership Services)
TERM:	October 1 through September 30
ORGANIZATION:	The Chairman is to be selected by the Vice President along with two members, all members, all members of WPCF. The new Chairman shall review the proposed members and suggest any alternatives to the Vice President. Upon agreement between the Chairman and the Vice President, the new Chairman shall confirm the willingness of each proposed member to serve and report to the Vice President the final membership prior to August 31 for confirmation by the Board of Directors at the next Board Meeting.
DUTIES:	The Committee shall conduct a safety survey of wastewater operations throughout the state, and select operations that qualify for Awards of Merit and Awards of Honor as defined by the WPCF criteria. The Chairman shall be responsible for obtaining the certificate blanks and having them properly prepared for presentation at the AW&PCA Conference. It shall be his duty to make the presentations. A yearly review of approved safety questionnaires shall be made and any desired changes shall be submitted for approval by the Board of Directors. The Committee shall promote safety in all wastewater plants and operations through seminars, mailings, AW&PCA newsletters, schools (in cooperation with the Education Committee) and direct mailings.
REPORTS:	The Committee shall prepare a written report of its activities for the previous year and submit this to the Vice President for transmittal to the Board of Directors by March 1. The Chairman will present the awards at the annual AW&PCA Conference.