PLAINTIFF'S EXHIBIT

MON-1980

Monsanto

FROM (NAME & LOCATION) A. H. Conrad - O-5

DATE November 17, 1983

SUBJECT Annual Safety and Housekeeping Inspection

REFERENCE

TO : G. L. Tromblee

cc
G. Bostick
R. Hammann
W. Haynes
R. Hernandez
J. Gatewood
D. Kaldenberg
D. Kos
H. Lacy
C. McClanahan
J. McClellan
S. Moncla
G. Orum
V. Osburn
A. Patterson
H. Robinson
W. Triplett
D. Wise
G. Wofford
PMSB
SHAC

Attached are the results of the 1983 Annual Safety and Housekeeping Inspection. Copies of the total plant inspection are being sent to your staff and SHAC. Copies of the results from the specific areas are being sent to the individual superintendent/supervisor responsible for the area.

By copy of this memo, I am requesting that each responsible superintendent/supervisor respond to his general superintendent with his action plan to correct the deficiencies. This should be completed no later than December 15. A copy of the action plan should also be sent to SHAC, attention Bill Howe, 51D.

A. H. Conrad
SHAC Chairman

lw

Attachments

SC 000639

LAM001837

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Mat. Handling, Barge & Ship Docks 5,4,3,2,1

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	5	14.7	0	0.00
1982	9	16.8	2	3.75

SAFETY

- Extension ladder at Dock 1 with '82 inspection date.
- Breathing Air - hoses not connected at Docks 2 & 4.
  - no masks in boxes at Docks 1 & 2.
  - hose on reel should have cap.
  - connectors bad at Docks 3, 4, & 5.
  - emergency breathing air at Dock 2 blocked in.
- SS & EB - no strainer bleeder at Dock 5.
  - pipe spool blocking EB at Dock 3.
- Hoses - docks area up to date - some utility hoses need new tape.
  - pins not being used at Dock 4.
- Fire Extinguishers - need new sign at W end Dock 1.
  - missing from box at W end Dock 2.
- Need new sign at AN blowdown line at Dock 1.

HOUSEKEEPING - General housekeeping excellent on all docks.

- Some uninsulated steam tracing at Dock 2.
- Insulation damage at top of stairs at Dock 4.
- Grease on deck below tuggers at Dock 4.
- 2 rolling tool boxes used for storage near Dock 1.
- Pipefitter storage area under Dock 1 disorderly.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Mat. Handling , AN Loading Rack, Esters Loading Rack

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	5	14.7	0	0.00
1982	9	16.8	2	3.75

SAFETY

- Procedural knowledge good.
- Breathing air connectors bad.
- Utility hose connections in bad shape - corrosion.
- Review design of N_2 systems - are they proper?
- Loading hoses at Esters rack are out of date.
- Shield above cabinet at Esters rack is a headknocker.
- Locking device not in use on T/C walkway ramp at Oxo spot.
- Utility pipe identification needs upgrading.
- Safety showers have no lights - has this been reviewed?

HOUSEKEEPING

- Walkway floor plate heavily corroded.
- Pipe badly corroded especially in the acetic acid loading area.
- Railroad ties south of LN storage area - rotten wood.
- Unmarked cans & bottles in storage cabinet west of AN shack.
- Wooden pipe supports in CO_2 area & esters rack should be reviewed.
- General excess of steam pipe in AN rack.

GENERAL COMMENTS

- General clutter in this area.

1983 MONTHLY SAFETY AND HOUSEKEEPING INSPECTION

Area: Mat. Handling, PA Loading Rack

PERFORMANCE SUMMARY	TI	TIR	TR -	TRR
1983	5	14.7	0	0.00
1982	9	16.8	2	3.75

SAFETY

- Good procedural knowledge.
- Inclusion of crowsfeet and thor fittings in monthly checklist is good.
- Cover goggle specifications not specific enough.
- Should arm protection be required in this area?
- Hazards of hydraulic failure should be reviewed.
- One steam hose not inspected - one N_2 hose also.
- N_2 station not identified and not plant standard.
- Breathing air hoses not connected.
- Broken handle on N_2 valve - top walkway.

HOUSEKEEPING

- No sign at water station at grade.
- Many small steam leaks.
- Insulation falling off pipes.
- More PA on ground than usual.
- PA hanging off T/C - Public relations problem.
- Song pipe sticking out of trash can into walkway.
- Fitting cabinet messy.
- Broken wooden bench under PA rack - discard.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Mat. Handling , Material Handling Office Building

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	5	14.7	0	0.00
1982	9	16.8	2	3.75

SAFETY

- Knowledge of warden and assembly points not current.
- Safety meeting schedule current, documented, and well done.
- P-Bulletins should be moved to more accessible location than foreman's office.
- Need to hang fire extinguisher in office building.

HOUSEKEEPING

- Generally clean and orderly.
- Janitor's cart and boxes stored in hallway.
- Boxes stored in hallway near plant news.
- Steam blowing at S.E. corner of building.
- Area under desks being used for storage.

GENERAL COMMENTS

SC 000643

LAM001841

1983 MONTHLY SAFETY AND HOUSEKEEPING INSPECTION

Area: Mat. Handling, Super Shack, AN Incinerator, Styrene Racks, ACY Rack and East Storage

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	5	14.7	0	0.00
1982	9	16.8	2	3.75

SAFETY

- Gas cylinders lying on ground at SM rack.
- Chain operated valve w/o safety chain at AN incinerator.
- "T" handles on two valves at AN incinerator.
- Low pressure in two 5 min. escape masks in S.S.
- Rain cover at incinerator is headknocker - highlight.
- Platform at incinerator is too high without step.

HOUSEKEEPING

- Replace SS/EB signs at SM rack.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 13-14

PERFORMANCE SUMMARY	TI	TIR	TR	TFR
1983	6	12.5	1	2.08
1982	9	14.4	1	1.60

SAFETY

- Several P-Bulletins missing from book - some out of date - had trouble finding. Procedures in drawer should be posted.
- Procedural knowledge excellent.
- Warden and assembly points not definite.
- Upgrade safety highlighting around Cl and acid addition at CT1.
- Good responses to safety log entries - well used.
- Drums in catalyst house unmarked - guide did not know contents.
- Conduit at CT-1 by P1-5 being used as a step.
- Acid piping at CT-1 badly corroded.
- Should eye bath covers be used to prevent chemical attack on cups?
- Review use of open ended "T" handled ball valves.
- Monorail not marked with capy. rating in central refrig. building.
- Safety meetings good - but not frequent enough on unit/craft safety team mtgs.

HOUSEKEEPING

- General housekeeping has improved significantly from prior inspections.
- Loose handrail - south end of 3rd deck - 14 dist.
- Replace pipe support at P26.
- Replace pipe color code in south storage area.
- Algae on pad in CT1 pump area and south of 14T5.
- Pump bases messy at CT1.
- Carpenter room at maint. building is messy.
- Several signs faded and should be replaced.
- Wooden sample holder is severely deteriorated.
- Update and replace worn B-board materials.
- Waste sample drums are tripping hazard.
- Lab housekeeping could be improved.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 15-16

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	21	48.2	3	6.89
1982	25	45.1	2	3.61

SAFETY

- Safety log well used with timely and appropriate responses.
- Unit/Craft Safety Team meeting minutes not available.
- Lighted panel in Dept. 15 indicates when trips are bypassed - good idea.
- Procedural knowledge was good.
- Bottled air for P'C 385 emergency shut off - who checks bottle? any alarm? could reverse action solve the backup problems?
- General pipe color coding could use upgrading.
- Scot Air Pak next to Dept. 15 analyzer building had no mask - is air pak needed?
- No toe boards on scaffold on 16D1 reboilers.
- An unmarked drum by Dept. 15 compressors.
- High voltage cables in breaker room loose-ended and not protected.
- Some hoses taped with red & green near NSI area.
- Valve stem caps inconsistently used - several bumping hazards.
- Need to review daylight lighting in 14-16 structure ground floor - appeared too dark.
- Should inverter/battery backup have acid shields?
- Hot water splashing into roadway from overflow pipe on condensate tank north of 14/16.

HOUSEKEEPING

- Generally good - improved significantly over prior inspections.
- Concrete fireproofing cracking at 16D5 - severe corrosions?
- Wire hangers at condensate return area and second decks of 14-16 area.
- A few steam stations very corroded.
- Algae growth on 2nd level 14-16 structure, and at 16E12.
- Many small steam leaks noted.
- 16P18 sample cabinet plexiglas window broken.
- Old sulfur system should be removed or cleaned up.
- Tracing drain line at 16T12 needs support.
- Weathered scaffold at tank north of 14/16.
- Standing water in sump at 15E26 - plugged sewer?
- Nylon strap and barracade tape hanging in pipe rack at 2nd floor of 16 distillation.
- Pin hole leaks in salt water line at 14E11.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Salt Water Pump House

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Waste drums labelled "Hazardous" corroding away north of pump house - contents unknown.
- Drums west of old 4 & 6 have no ground, no markings, and drums cradle is broken.
- Barracade tape used to prevent step-off into pump pit. Preventing a 16 foot fall calls for a more substantial material.

HOUSEKEEPING

- General housekeeping fair.
- Very messy turbine and pump bases in south pump pit.
- Several steam leaks.
- Unused equipment deteriorating and unsightly.
- Large pipe wrench stored in chlorinator building.
- Clutter in northeast corner of building.

GENERAL COMMENTS

- Question from plant survey - dust control on electronic equipment. Does control panel in pump house present such a concern?

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 513

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	0	0.00	0	0.00
1982	1	6.3	0	0.00

SAFETY

- Good suggestions and responses in Safety log.
- Safety meeting content and attendance good - records kept since July as a a result of 2nd quarter inspection.
- No Unit/Craft Safety Team meetings between March & Sept. due to staffing changes.
- Procedural knowledge was excellent!
- Ladder wired to conduit at ammonia tank.
- Scot Air Pak training monthly - checked weekly with 5 min. escape masks.
- Found one breathing air hose not connected.
- Several N_2 stations not plant standard.
- A narrow wooden ladder behind scaffold storage - not inspected - did not belong in the area.
- Some crowsfeet gaskets hard and cracked.
- Scaffold in ammonia area - rusty cross brace fasteners and weathered boards.

HOUSEKEEPING

- Excellent - a few pick up items around.
- Hose lying on clarifier walkway.
- Oil bottle lying on floor next to clarifier agitator.
- Some pipe coding missing at ammonia tank.
- Sign missing at hose station south of control room.
- Clutter in sprinkler house at ammonia storage.
- New roof on portable building in ammonia area was put on over the tie down cables.

GENERAL COMMENTS

- No presentation.

[illegible] SAFETY AND HOUSEKEEPING INSPECTION

Area: Power 2

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	12	27.4	0	0.00
1982	8	15.6	1	1.95

SAFETY

- Procedural knowledge excellent.
- No attendance records on monthly safety meetings.
- No records on Unit/Craft Safety Team meetings between May and October - otherwise issued bi-monthly.
- Safety log used - responses could be more organized.
- Safety checks well documented but suggest inspectors initial forms.
- Knowledge of safety equipment location excellent.
- Eyebath is very inconvenient to laboratory - portable eyebath might solve the problem.
- Lab chemical labelling could be improved.
- One P-Bulletin in book not up to date (Fire & Spill Alarm).
- Safety chain missing on chain oper. valve west of boilers.
- N_2 station in Plant Air Area not standard.
- Safety shower light out NW of 17 comp. house.
- Scaffold boards on top of boiler house need culling (cracked and loose cleats).
- Found some crowsfeet gaskets in poor condition and crowsfeet rusted.
- Host had not had Scott Air Pak training but once in past 2 years.
- Eyebath handle by T7 obstructed by chair.
- Need storage cabinet for electricians safety equipment used for MCC room battery checks.
- Should highlight step in Breathing Air analyzer house.
- One telephone with illegible fire & spill code sticker.
- Nail on portable scaffold - slipping hazard.

HOUSEKEEPING

- Generally very good.
- Wire hanger in pipe rack west of boiler house.
- Bailing wire used on several crowsfeet.
- Clutter around tar tank in north storage area.
- Cluttered electrical shop.
- Firewater pumphouse littered.
- Oil drum on its side and rusty near diesel tank for emergency gen.
- Several water and steam leaks but algae control good.
- Lab was clean but drawers could be cleaned out.
- Atomic absorption unit not in use - could be removed?
- Litter in breathing air analyzer house.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 19-23-25-27-29

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	4	11.9	0	0.00
1982	6	13.5	2	4.52

SAFETY

- Personnel displayed excellent safety attitude.
- Safety log utilization is excellent. Operators exhibit positive attitude on entries and responses are timely and responsive.
- Monthly safety meetings and unit craft safety meetings are held monthly and well documented.
- Safety bulletin board is excellent and innovative.
- Procedural knowledge was very good.
- No date on amyl nitrite capsules.
- Need to upgrade safety signs.
- SS light out at crude ACN storage tank.
- Some chain operated valves without safety chains.
- A few breathing air hoses not connected - also mask unbagged at lab.
- Eyebath handles could be cutting hazards by HCN storage tanks.
- Lost a lot of time with radio while putting on vapor proof suit.
- Inspection window broken on a five minute escape mask above HCN storage tanks.
- Fire extinguisher by 23T501 out of date.
- Should review use and need for value stem covers.
- Metal plex hose in ACN waste pit not taped - used for chemicals?
- Loose pipe blocking SS in ACN area.
- Supervisor without hard hat in the unit.
- Air hose without OSHA nozzle in maintenance shop.
- Cap not on gas cylinders.
- Control of crowsfeet on process lines is a problem.
- Unit lab - very poor lighting.
  - hood not alarmed.
  - unlabelled cans in hood with unknown contents.
  - no concentrations on titration bottles.

HOUSEKEEPING

- Housekeeping generally good.
- Rusty pipe arch in rack at Cl - storage area.
- CR inhibitor in rusty can in old HCN analyzer house.
- Overspray on some safety signs.
- Algae on pad at ACN area.
- Trash & boards on ground at caustic tank area.
- Maint. storage area cluttered - several out of place face shields.
- HCN warning sign at SW corner needs repair.
- Steam leak in old compressor area.
- Pneumatic tubing trap over street should be removed.
- Maint. storage at HCN storage area needs cleanout.
- Some clutter in HCN storage tank pit.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 33

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	4	22.7	0	0.00
1982	0	00.0	0	0.00

SAFETY

- Safety meeting held regularly with good records.
- Safety log not used much but responses prompt and well done.
- One P-Bulletin out of date in book.
- Procedural knowldege very good.
- Amyl nitrite capsules not dated.
- Grinder shield in shop broken.
- Hose at maint. shop had wrong inspection tape.
- Procedure in place to check crowsfeet and thor fittings every 3 months.
- Scott Air Pak training 3 times in past 1½ years.
- Some breathing air hoses not connected.
- Need valve stem covers on CTW to E8.
- No yarway filter on eyebath at T50, another with no bleeder on filter.
- Scott Air Pak mask unbagged SE of control building.
- Found a couple of crowsfeet not pinned.
- Two caged ladders on unit tanks were chained and should be open if that is only access.
- Two open ended process ball valves with "T" handles.
- SS on east side of CT8 severly corroded.
- Chain operated valve without safety chain south of CT8.
- Special wooden ladders not inspected - one broken.

HOUSEKEEPING

- Excellent in control room and offices - drawers in lab need cleaning. Remainder of unit very good.
- Cracked EDTA bottle in lab - not used.
- Reagents all labelled but not dated.
- A lot of scaffold up that could come down.
- Need some sign upgrade - faded, etc.
- Maint. storage area cluttered.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 44-45-46

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	4	12.7	0	0.00
1982	8	19.4	0	0.00

SAFETY

- Generally good safety program includes monthly safety meetings, safety equipment checks, use of safety log, etc.
- Unit/Craft Safety Team has met only twice in 1983 and documentation is poor.
- A good, formal procedure in place for bypassing interlocks.
- Almost all chain operated valves have no safety chain.
- Generally good safety attitude.
- Weekly check on Scott Air Paks with training every 3-4 months.
- Found some thor fittings on N_2 lines without check valves or bleeds.
- Chemical hose inside 45T408 pit without test tag.
- One unracked ladder without an inspection sticker.
- Valve wrenches lying on operating decks - tripping hazard.

HOUSEKEEPING

- Generally good.
- Hinges bad on janitor's door outside control room.
- Electrical storage W end of control room needs cleanup.
- Excess instrument wire over 45E 402.
- Need to identify drum at 46T603.
- Water on pad but algae control good in most areas.
- Emergency light stored in sprinkler house.
- Need to cull some scaffold boards.
- Hose in reactor skirt.
- Excess of wire in scaffold area.

GENERAL COMMENTS

- Good visual aids in presentation.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 48-56

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	5	16.3	0	0.00
1982	2	5.2	0	0.00

SAFETY

- Good use of safety log book with excellent responses.
- Very good knowledge of procedures.
- Safety meetings not held since mid-year and no records of those held earlier.
- Safety incidents are discussed with operators.
- Weekly check of crowsfeet and thor fittings is good.
- Question location of 5 min. escape masks in Esters structure 1st Deck at SE stairs near elevator.
- Gas cylinders in shop secured with wire - needs a rack.
- A few chain operated valves w/o safety chains.
- Found electricians ladder with splintered runner.

HOUSEKEEPING

- General condition very good.
- Need to upgrade safety signs.
- Clutter in 48T804 pit.
- Piped vessel on structure near 56S1-9 needs to be removed.
- Maint. shop cluttered.
- 48 Rx structure - 2nd deck - fitting cabinet overflowing.
- Unracked ladder in Dept. 48.
- Poor housekeeping at 48T804 - north storage.
- Need eyebath in lab.
- Hood door in lab above set level.
- Lab hood alarm light is out.
- Excellent housekeeping for sample bottle cabinet and janitorial supplies cabinet.

GENERAL COMMENTS

- Good presentation.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 50

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	3	13.5	0	0.00
1982	8	27.0	1	3.38

SAFETY

- General safety knowledge and procedures good.
- Monthly safety meetings are held but full documentation is lacking.
- Safety log in use but difficult to follow supervisor responses.
- Unif/Craft Safety Team only meets once/quarter and no documentation available.
- One safety P-Bulletin missing from book.
- Vapor-proof suit test was 3 minutes - good for a non-HCN unit.
- Eyebath at 50T402 is in a congested area - relocate.
- One BA hose inspection out-of-date - not coupled - below 50T202.
- Good control of crowsfeet.
- Plastic drum under sample cabinet labelled "Broken-Do Not Use."
- Strong acetic odor in analyzer house - ventilation? leaks?
- One N_2 station had thor fitting on test valve - dual hookup.
- A couple of chain operated valves without safety chains.
- 2 open ended "T" handle ball valves in process service.
- A few missing utility signs.
- Pipe rack ID sign missing on NW corner.
- Found one defective sample container.
- Question? Does hoist cable in catalyst makeup area get a periodic inspection?

HOUSEKEEPING

- General unit appearance was good.
- Trash in "cubby holes" behind panel board.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 51

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	18	30.7	2	3.41
1982	31	32.0	1	1.03

SAFETY

- Safety P-Bulletin book available and up to date.
- Safety log in use with a few complaints but usually good suggestions. Replies are timely and positive.
- Unit/Craft Safety Team meeting monthly with good documentation. Only July missing. Content is positive and appropriate.
- Excellent knowledge of safety procedures.
- Monthly safety meetings are scheduled and attendance kept.
- Good interlock bypassing system - well understood.
- Good safety equipment checks & documentation.
- Lockout of one refrigeration system with only operators lock - needs craft lock also.
- Lab area clean and procedures posted - one flask had broken spring.
- One eyebath in Pure with bad rubber cup.
- Metal covers on eyebath is good idea.
- One utility hose not inspected.
- Bad BA manifold connections at T20-9 and deluge house #5.
- Ladder in deluge house #5 not inspected.
- No date on amyl nitrite capsules.
- Program in place to remove unused crowsfeet and thor fittings.
- Chief operator (trainer) used to conduct a safety meeting - good involvement.
- Using barracade type to identify catalyst drums.
- HQ area - BA hose hooked up but not in use.
- SS #7 - shower ring is headknocker for EB use - EB hands rusty.
- BA hose not coupled and mask not bagged at #206.
- No BA hose or mask by E30.
- Unmarked sample in catalyst area.
- Propane cylinders by tar pot - rusty, no support.
- AAH 113-3 using wire to hold cylinder instead of chain.
- No safety chain on chain operated valve at Pure area.
- Several N_2 stations without test valves.
- Electrical cord to temporary building at south shop area.
- ~~Very rusty~~ monorail dolly on top of CT9.
- Chain fall without red dot at BM shop.

HOUSEKEEPING

- General housekeeping very good.
- Standing water and algae @ north analyzer house, T10-1, and E5-1.
- Clutter at P1-1.
- Fire water line to T17-2 needs to be dismantled.
- CT9 road is water runoff area - uneven - tripping falling hazard.
- Bumpers at dumpster loading area chewed up.
- Unguarded light by E10.
- Tubing not connected under E11 should be removed.

Area: 51

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	18	30.7	2	3.41
1982	31	32.0	1	1.03

SAFETY

HOUSEKEEPING (Cont'd)

- Little trash in D2-3 skirt.
- Misc. lumber, rope, and metal on top of CT9.
- Pots on vent hood in kitchen.
- Wire hanger east of D4.
- Hose on D4 deck.
- South Shop Area - temporary building north of shop - not used - in bad shape.
  - storage room next to BM shop is a mess.
  - steam hose on ground - not inspected.
- Scaffold out of place.
- Some utility stations - leaking, rusty, etc.
- HCN complex waste sample pump leaking.
- Firehose on ground by sand filters - not used in sometime.
- Door on south breaker house bad.
- Hose inspection tape needs updating.

GENERAL COMMENTS

- Good presentation and visual aids.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: AN Slip Stream Reactor

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982	N/A	Part of PT Research		

SAFETY

General knowledge good.

HOUSEKEEPING

Generally good.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: 53

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	6	23.8	1	3.97
1982	3	10.8	0	0.00

SAFETY

- Safety meetings are scheduled for entire year, all months have attendance records. P-Bulletins are reviewed.
- No formal unit/craft safety team meetings.
- Good knowledge of safety procedures - only one error appeared concerning approval level required to enter an atmosphere of < 16% O_2 - requires Plant Manager approval not Superintendent level.
- Safety log not used much - has been labelled "Joke" on front - some confrontation aspec apparent.
- Vapor proof suit training held 4/83. Question the need for the suit.
- Breathing air hose not connected in safety supply room - one mask not bagged by SO_2 tank.
- Could organize 5 minute escape masks better.
- Ladder with shoe pad missing.
- Swinging scaffold in Pure without toe boards.
- N_2 station at PA storage tank had no check valve or test valve.
- Need an eyebath in the lab.
- Hood operated above test level - plexiglass door needs to be replaced.
- Scaffold on 53T4-2 not up to standard - nail sticking out - toe plate spacing is wrong.

HOUSEKEEPING

- Unit was generally clean and orderly.
- Most storage cabinets were cluttered.
- Need cleanup around crude PA Storage.
- Many small process leaks such as at E6-1 outlet.
- Unmarked storage cabinet east of E6-9.
- Shop area had too many steam trap boxes stacked on top of cabinets.
- Need to clean out drawers and cabinets in lab.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Cafeteria

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- ° Unmarked utility outlet.
+ ° Good safety awareness - Cutlery safety is emphasized.
- ° Knew assemble point and last safety meeting content. Did not know warden.

HOUSEKEEPING

- ° Janitor closet crowded - too many mops and mop buckets
- ° Breaker panel needs permanent ID
+ ° Housekeeping - Good, clean and neat.

GENERAL COMMENTS

There is a telephone terminal in the dishwashing area which has no cover on it. Question location of this terminal?

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Main Office

PERFORMANCE-SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

° Tripping hazard at Worthington's old desk area from electrical outlet & conduit.

° Back side of belt guard on penthouse fan is left open.

+ ° Good knowledge of safety

HOUSEKEEPING

° Janitor closet cluttered with boxes and old paintings.

° Pictures stuck behind coat closet in Tromblee's office.

° Damaged TV antenna on roof.

° Clutter in coat closet by copies room.

° Old electrical fuses in lighting transform room - pent house.

GENERAL COMMENTS

° Looks good in general.

SC 000660

LAM001858

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Zone 1 Warehouse

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

+ ° Good Knowledge on procedures.

HOUSEKEEPING

° Warehouse good - improved but needs more work.

° Electrical storage area cluttered - floor needed cleaning.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Office Annex

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

° Loose electrical wires - A/C Room - 7106.

° Ladder - out of date inspection - A/C Room - 7106.

° Fire extinguisher missing - first floor.

HOUSEKEEPING

+ ° Accounting area looks very good.

° MMTS office shelves overloaded (Sanders, Gupton, Jakcson).

° Leak in machinery room.

° Metal door on north-east side corroded.

° Roaches in janitor closet - 1st floor.

GENERAL COMMENTS

Accounting STOP program looks good.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Zone 1 Office

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

+ ° Fire extinguishers/signs - adequate and visible.

HOUSEKEEPING

+ ° Very Good

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Looker Building No. 1 & Safety Supply

PERFORMANCE SUMMARY	TI	TIR	TR	IRR
1983				
1982				

SAFETY

+ ° No safety items noted.

HOUSEKEEPING

+ ° Excellent

GENERAL COMMENTS

SC 000664

LAM001862

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Fire Station

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Water hose station not marked - hose w/o inspection tape.
- Hose connected at drying rack w/o safety pin.
- Hose on south/west side of building w/o inspection tape.

HOUSEKEEPING

- Two utility hoses on ground by hose drying rack and not inspected.
- Various test fittings scattered around hose drying rack.
- Pieces of loose aluminum jacket on ground at drying rack - area cluttered.
+ - General condition of station was orderly and maintained.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Guard House

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Should straighten "Stop" sign at main entrance.

HOUSEKEEPING

- Looks very good.
- Cracked glass at pay window.
- Need to renew document frames mounted outside the building.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Stores

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	2	10.2	0	0.00
1982	1	3.5	1	3.50

SAFETY

- Question use of diesel forklift truck - problem with fumes.
- Chain not in place at oxygen cylinder storage.
- Cylinder chains too stack to be effective.
- Telephone fire/spill code sticker-not readable.
- Florescent bulb broken - still in fixture.
- Asbestos rope and woven tape are stored uncovered in bins.

HOUSEKEEPING

- Cluttered area in office supply area under grading.
- Old lunch box area messy.
- Storage of glue (stores items) in refrigerator with food.
- The quantity and duration of items held on warehouse trucks on second floor landing seems too great.
- Empty wooden box and loose wood stashed behind platform scale in receiving.
- Bins orderly and not overfulled.
- Cat and kittens living on second floor - hygiene problem?

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Maintenance Shop Offices

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

° Inspection tag in elevator shows last inspection in 1978.

HOUSEKEEPING

° Rusty hot water heater - leaking RV.

° A/C room cluttered - catch all area.

+ ° In general - looked good.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Maintenance, Zone 4 Offices

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Good knowledge of safety meetings.
- Conference room telephone fire/spill code sticker faded.

HOUSEKEEPING

- Storage on floor - Larry Young's office.
- Refrigerator needs to be cleaned.
- Offices orderly.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Zone 2 Office

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Knowledgeable on safety assemble and wardens.
- Question need for escape mask - it needed inspection.

HOUSEKEEPING

- Storage on hat rack in closet, boxes, can, notebooks.
- Very good condition.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: PT Warehouse & Solvent Storage

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

HOUSEKEEPING

- Empty drum with HCN sign should be removed.
- Storage room #4 cluttered.
- Molecular sieve (50#) stored on top shelf-north end of building.

GENERAL COMMENTS

- Are florescent light retainers needed?

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Dispensary

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Electric cigarette lighter in waiting room should be located so that person using the scale cannot be burned.
- Did not know warden and unsure of assembly point.

HOUSEKEEPING

- Boxes on ambulance/car storage area.
- Area looked very good.

GENERAL COMMENTS

SC 000672

LAM001870

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Warehouse A-B-C-F-G

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Warehouse A - One person did not know warden.
- Warehouse E - No identification signs.
- Warehouse F - Safety shower light out. Silica gel drums falling apart. Tower packing and railroad material is a hazard. Actuated carbon drums falling apart. Drinking fountain missing front cover.
- Warehouse G - Safety shower very messy - needs to be anchored. Filter AID is leaning. Needs building identification sign. Oxalic acid drums in bad shape. Oily floor - east end.

HOUSEKEEPING

- Warehouse A - Clutter behind office. Broken chair and warehouse dolly on hand truck with out handles. Drinking fountain not working properly. Box stored on top of restrooms.
- Warehouse B - Disintegrating HCl box, open resin can, 5 gallon drum unlabeled outside under AN expansion joint. Shell area west of building eroded.
- Warehouse E - Scaffold end frames leaning against fence north of building. Cluttered insulation piled too high. Reformer tubes are improperly stacked. Milk jug being used to store drinking water.

GENERAL COMMENTS

Pallets not securly stacked and leaning in most areas.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Personnel Building

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

+ ° Knowledge excellent.

HOUSEKEEPING

° The metal sign "No Thru Traffic" @ R/R track is out of place.

+ ° Looks good.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: PT-Research 1

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983 (Res. 1,2,3 combined)	4	3.8	0	0.00
1982 "	2	1.2	0	0.00

SAFETY

- \- Safety showers and escape masks on all three floors last inspected in July.
- \- Some personnel have not had fire training in several years.
- \+ All hoods tested and inspection sticker posted.
- \+ All ladders inspected.
- \- Safety suggestion log book available but not used very much.
- \+ All personnel appeared to be knowledgeable about assembly points and wardens.
- \- Lab 1309 - waste can not labeled.

HOUSEKEEPING

- \- Need to replace floor tile in lab 1206.
- \+ Labs neat and clean.
- \- Elevator had trash on it.

GENERAL COMMENTS

- \- Safety equipment not inspected since July; prior to July, inspected monthly.
- \+ Overall housekeeping very good.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: PT-Research 2

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983 (Res. 1,2,3 combined)	4	3.8	0.	0.00
1982 "	2	1.2	0	0.00

SAFETY

- All safety shower and escape mask inspections out-of-date.
- Fire extinguishers in central refrigeration building inspections out-of-date.
- Emergency lights last checked in July.
- Lab 2165 - breathing air mask not bagged. Doorway is a "headknocker".
- Lab 2137 - AN cylincer needs better method of securing.
+ Ladder and hood inspections good.
- Lab 2109 has cracked window pane.
- Refrigerated sample storage in deplorable condition.
- AN development group did not hold safety meetings in July and September.
- Lab 2121 - light out on hood alarm.
- Lab 2114 - broken glass in hood door.
- Lab 2128A - amyl nitrite not dated.

HOUSEKEEPING

- Steam leak in machinery room.
- Janitor closet on 1st floor cluttered.
- Lab 2113 - several items out-of-date.
- Unracked utility hose on southside of building.
- 2nd floor - hurricane damage still evident.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: PT-Research 3

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983 (Res. 1,2,3 combined)	4	3.8	0.	0.00
1982 "	2	1.2	0	0.00

SAFETY

- All eyebath and escape mask inspections out-of-date.
- Unindentified ladder in machinery loft.
- Large floor mat hung over fire hydrant guard, blocking view.
- Eyebath near corrosion lab needs new head.
+ Overall safety knowledge good.

HOUSEKEEPING

- Algae problem between Research 2 and 3 due to splashing water.
- Steam hose in coat closet, PT conference room.
- Rocks and gravel on outside landing.
- Clutter in S.W. corner of machinist shop.
- PF/BM shop: face shield out of place, storage cabinets cluttered and face guard deteriorated.
+ Corrosion lab looks good.

GENERAL COMMENTS

+ Overall housekeeping good.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Control Lab

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	6	19.9	0	0.00
1982	8	14.5	0	0.00

SAFETY

- Guide not certain about required frequency of hood velocity checks.
- Question safety of using air jet to blowout glassware.
- Waste NSI container not labeled.
- Label on acid bottle eaten off and under hood - 1st floor.
- Stray chemicals to be discarded, stored in refrigerator without labels.
- Solvents not properly stored.
- Air hose 2nd floor out of inspection date.
- Acetone storage greater than a quart container.
- Location of escape mask next to AN hood (Res. 2) has restricted access.
- Fire extinguisher on 2nd floor blocked by garbage can.
- Emergency alarm button ID missing in south lab.
- Hood doors not set at test mark when in use.

HOUSEKEEPING

- Need to replace AN and ACY labels on refrigerator in retainer area.
- Kitchen cabinet disorderly.
- Glass container under lab cabinet - label not readable.
- Venetian blind in instrument room, north lab, broken.

GENERAL COMMENTS

+ Overall housekeeping good.
- Number of minor safety deficiencies noted.
° Inspection raised several questions about certain practices.
  - ° Chemical compatibility of wastes in waste storage tank.
  - ° Personnel walking behind lab in vicinity of chemical dump w/o glasses and hard ha
  - ° Using compressed air to dry glassware.
  - ° Ammount of solvents stored around lab.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: South 22

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Pipe rack color code needs upgrading.

HOUSEKEEPING

- Scaffold storage area cluttered.
- Scaffold stored against tank pit wall north of 51T18-1.
- Sample bottle in tank pit at 48T13-4.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Salvage Area

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Portable building tie down missing.

HOUSEKEEPING

- Considerable amount of storm debris in area.
- Lay down area west of ammonia tank cluttered.

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Sandblast Area

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- No open area permit at smoke area.
- Electrical conduit and wire unsecured - south of bldg.
- One tie down missing at bldg.
- ID not visible on cans stored north of bldg.
- Flammable drum mat'l. not grounded.

HOUSEKEEPING

GENERAL COMMENTS

SC 000681

LAM001879

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: NSI Warehouse

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Forklift appears to need repairs.

HOUSEKEEPING

GENERAL COMMENTS

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Boilermakers

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	18	46.2	1	2.56
1982	24	42.1	2	3.51

SAFETY

+ No safety deficiencies noted.

HOUSEKEEPING

- Sledge hammer standing in corner of shop.

GENERAL COMMENTS

+ Overall housekeeping was good.
+ Overall safety knowledge and practices were good.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Instruments

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	1	3.2	0	0.00
1982	2	4.4	0	0.00

SAFETY

- Unguarded florescent lights in work area.
- Hose on portable cart in valve shop out of inspection.

HOUSEKEEPING

- Some cabinets in storage area were cluttered.
+ Reclaim storage area showed significant improvement.

GENERAL COMMENTS

+ Overall housekeeping very good.
+ Overall safety practices good.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Operating Engineers Offices

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983				
1982				

SAFETY

- Metal ladders in breaker room.
- Warning lights broken on fork truck.
- Breaker room has two "ground light" indicators on. What does it mean and who has responsibility?

HOUSEKEEPING

- Breaker room used for storage.
- Tile broken in men's restroom and locker room.
- Unused wood cabinet on south wall in bad condition.
- Junk stored in emergency generator room.
- Two boards in pipe rack southeast of building should be removed.
- Need to repair sunken parking area.

GENERAL COMMENTS

- If operating engineers are going to occupy the Dept. 10 control room, they must assume responsibility for the entire building.
- There are knowledgeable people checking out equipment prior to its use but there were no written procedures for checking out rental equipment.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Insulators

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	5	32.5	0	0.00
1982	7	29.0	1	4.15

SAFETY

- Air utility sign missing at west wall.
- Insulator's bicycle blocking cabinet.
- Safety log book had disparaging remark to the effect that no one reads the book.

HOUSEKEEPING

- Dirty coveralls stored in insulators cabinet in back of shop.
- Steam trap leaking. Standing water and algae on southwest side of building.
- Clutter in metal storage cabinet.

GENERAL COMMENTS

+ Overall housekeeping good.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Pipefitters

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	24	33.1	2	2.76
1982	32	30.7	1	0.96

SAFETY

- Air utility sign missing south wall of pipe shop.
- Fire extinguisher out-of-date in clean room.
- Flaring tool machine high pressure hose inspection out-of-date.
- Safety log suggestions not well answered or not answered at all.
- No formal eyebath check in shop area.

HOUSEKEEPING

- Pipe dope can left on monorail.

GENERAL COMMENTS

\+ Overall housekeeping good.

° Need to evaluate highlighting of stop buttons on rotating equipment throughout shop area.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Painters

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	4	66.7	0	0.00
1982	1	11.8	0	0.00

SAFETY

+ Safety knowledge good.
+ Good demonstration of overspray and sandblast equipment.

HOUSEKEEPING

+ Very clean and orderly.

GENERAL COMMENTS

+ Overall housekeeping and safety practice good.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Electricians

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	4	13.8	1	3.45
1982	3	6.6	0	0.00

SAFETY

- Lights stored on pad west of shop.
- Emergency light in power monitor room not operational.
- One steam hose tape out-of-date.
- Shelving in test lab needs more support.
- No routine check of five minute escape mask.
- Two air hoses had straight nozzles in violation of OSHA standards.
- Utility air station not marked.
+ Good safety dates posted in shop area.
- No entries in safety log since 1981. Log located in supervisor office. (Accessibility

HOUSEKEEPING

- Closet cluttered with boxes.

GENERAL COMMENTS

+ Overall housekeeping in offices and shops very good.
- PCB clean up area. Need plan to meet TOSCA regulation.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Carpenters

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	15	91.3	0	0.00
1982	8	30.1	0	0.00

SAFETY

- Eyebath sign missing east wall.
- No formal eyebath check.
- Methylene chloride and acetone stored in wooden cabinets. Should be metal.

HOUSEKEEPING

+ Area very clean.

GENERAL COMMENTS

+ Overall safety knowledge and awareness good.
+ Good use of protective devices on equipment.

1983 ANNUAL SAFETY AND HOUSEKEEPING INSPECTION

Area: Machinists

PERFORMANCE SUMMARY	TI	TIR	TR	TRR
1983	3	7.9	1	2.66
1982	9	16.1	3	5.37

SAFETY

- Two fans without proper guarding.
- Bicycle in tool room.
- More than half of the chain falls top suspension hooks do not have safety latches.
- No formal eyebath check in the valve shop and garage.
- Air hose in valve shop not inspected.
+ Machinists testing and labeling valves was following all safety procedures.
- Safety chain missing on chain operated valve in the garage.
- Utility hose safety pin not being used in garage.
- Should use face shield when adding acid to batteries in garage.

HOUSEKEEPING

- Storage areas under some benches cluttered with trash.
- Items protruding from shelves in tool room.
- Rigging room cluttered, gloves on floor and oxy/acety hose out of place.
+ Valve shop good.
- Garage still had some unrepaired storm damage. (Material is on order).
- Garage spare parts room needs to be cleaned and non-repairable items disposed of.
- Using a "make shift" exhaust vent system in garage.
- Spare tires in garage not racked.

GENERAL COMMENTS

+ Overall safety knowledge good.
- Housekeeping in the valve shop was good, all other areas used by machinists' was poor to fair.
- A number of minor safety violations and hazards found.

COMPETITIVE QUARTERLY SAFETY/HOUSEKEEPING INSPECTION

OBJECTIVES OF COMPETITIVE PROGRAM

- Improve quality of quarterly inspection and feedback
- Recognize achievements/needs
- Improve consistency of application of safety program, procedures and inspection ratings

COMPETITION

- Split into comparable groups - units, crafts, labs, offices/services
- Criteria for eligibility for award - recordable injuries, major incidents, total injury rate

INSPECTION

- Supervision will be notified as to day of the inspection - 2nd Q will be last two weeks in June
- Each area will receive a rating even if not eligible for competition
- Team will issue detailed inspection report including rating. Response will be by memo to general superintendent of area with copy to SHAC
- Ranking criteria for award: (1) safety performance - major incidents; total injury rate, (2) unit/craft safety improvement - plantwide programs (STOP, safety meetings, unit/craft safety meetings), (3) housekeeping/safety level of area - field inspection

AWARD

- Top area in each category (i.e., best unit, best craft)
- Plaque to be permanently displayed in the area

PUBLICITY

- Award presented by plant manager
- Announced in Plant News with photographs
- Announced on sign boards at gates

INSPECTION TEAMS

- Membership - (1) Unit/craft shops: PMSB, SHAC, contact supervisor, HSC
  (2) Labs/services/offices: PMSB, SHAC, TCSC, OSC
- Organization - (1) Two unit inspection teams will tour 12 units. One team inspects units qualified for "best" award. One team inspects the remaining units.
  (2) One team each for crafts, labs, offices/services.

TIMING

- Normally last 2 wks of each quarter.
- Awards presented by 15th of following month.

SAFETY / HSKPNG QRTRLY
INSPECTION TEAM MEMBERSHIP

AREA	1Q	2Q	3Q	4Q
Units - Group 1	Hammann Danner Recknor CS O'Briant HSC	Howe Hammond Mears CS Yarger. UC	Annual / Inspection	Hammonr Kaldenber Bean Siems
Units - Group 2	Howe Danes Cotton HSC Mickens CS	Latimer Metten Lengenfelter UC Bohmler CS		Baca Ryan Hughes Mathis
Crafts	Baca Gotewood Butler CS Derrick HSC	Fritz Kirk G. Bryan CS Perez HSC		Howe Traftor Yauger Riddle
Services / Offices	Fritz Wofford Chuoke OSC Cross TCSC	Baca Lancaster Escamilla OSC Garton TCSC	Tromblee Danner Barfoot Haynes Gore Schwab	Conrad Pappas Johnson Whitehead
Labs	Same as Services	Conrad Small Curtis OSC Whitehead TCSC	Annual / Inspection	Latimer Juhl Treleaver Olson
Peripherals	Tromblee Conrad	Tromblee Hammann Conrad		Tromblee Hammann Conrad

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