APPENDIX C SAMPLE SAFETY AUDIT

A. ORGANIZATION & ADMINISTRATION

A. ORGANIZATION & ADMINIS		Pain	Cond	Evenllent
Activity 1. Statement of policy, responsibilities assigned	Poor No statement of Loss Control Policy. Responsibility & accountability not assigned	Fair A general understanding of Loss Control, responsibilities & accountability, but not written	Good Loss Control Policy & responsibilities written & distributed to supervisors.	Excellent In addition to "Good" Loss Control Policy is reviewed annually & is posted. Re- sponsibility & ac- countability is em- phasized in super- visory performance evaluations.
Safe operating procedures (SOP's)	No written SOP's.	Written SOP's for some, but not all, hazardous opera- tions	Written SOP's for all hazardous operations.	All hazardous operations covered by a procedure, posted at the job location, with an annual documented review to determine adequacy.
3. Employee selection & placement	Only pre-employment physical examination given	In addition, an aptitude test is administered to new employees.	In addition to "Fair" new employ- ees' past safety record is consid- ered in their em- ployment.	In addition to "Good" when employees are considered for promotion, their safety attitude & record are considered.
4. Emergency & di- saster control plans	No plan or pro- cedures	Verbal understand- ing on emergency procedures	Written plan out- lining the minimum requirements.	All types of emergen- cies covered with written procedures. Responsibilities are defined with backup personnel provisions.
5. Direct management involvement	No measurable activity.	Followup on accident problems	In addition to "Fair," management reviews all injury & property damage reports & holds supervision accountable for verifying firm corrective measures.	In addition to "Good" reviews all investigation reports. Loss Control problems are treated as other operational problems in staff meeting.

		SAMPLE	SAFETY AUDIT (Continu	ied)	
A	ORGANIZATION & ADMINI	STRATION (Continued)			
	Activity	Poor	Fair	Good	Excellent
6	. Plant safety rules	No written rules.	Plant safety rules have been developed & posted.	Plant safety rules are incorporated in the plant work rules.	In addition, plant work rules are firmly enforced & updated at least annually.
<u>B</u>	. INDUSTRIAL HAZARD CONT	TROL			
	Activity	Poor	<u>Fair</u>	Good	Excellent
1	. Housekeeping storage of mate- rials, etc.	Housekeeping is generally poor. Raw materials, items being processed & finished materials are poorly stored.	Housekeeping is fair. Some attempts to adequately store materials are being made.	Housekeeping & storage of materials are orderly. Heavy & bulky objects well stored out of aisles, etc.	Housekeeping & storage of materials are ideally controlled.
2	. Machine guarding	Little attempt is made to control hazardous points on machinery.	Partial, but inade- quate or ineffec- tive attempts at control are in evidence.	There is evidence of control which meets applicable Federal & State requirements, but improvements may still be made.	Machine hazards are effectively controlled to the extent that injury is unlikely. Safety of operator is given prime consideration at time of process design.
3	. General area guard- ing	Little attempt is made to control such hazards as: unpro- tected floor open- ings; slippery or defective floors; stairway surfaces; inadequate illumina- tion, etc.	Partial, but inade- quate attempts to control these hazards are evi- denced.	There is evidence of control which meets applicable Federal & State requirements—but further improvement may still be made.	These hazards are effectively controlled to the extent that injury is unlikely.
4	. Maintenance of equipment, guards, handtools, etc.	No systematic pro- gram of maintaining guards, handtools, controls & other safety features of equipment, etc.	Partial, but inade- quate or ineffective maintenance.	Maintenance program for equipment & safety features is adequate. Electrical handtools are tested & inspected before issuance, & on a routine basis.	In addition to "Good" a preventative main-tenance system is programmed for hazardous equipment & devices. Safety reports filed & safety department

consulted when abnormal conditions are

found.

B. INDUSTRIAL HAZARD CONTROL(Continued)

	<u>Activity</u>	Poor	<u>Fair</u>	Good	Excellent
5.	Materials handling hand & mechanized	Little attempt is made to minimize possibility of injury from the handling of materials.	Partial but inade- quate or ineffective attempts at control are in evidence.	Loads are limited as to size & shape for handling by hand, & mechanization is provided for heavy or bulky loads.	In addition to controls for both hand & mechanized handling, adequate measures prevail to prevent conflict between other workers & material being moved.
6.	Personal protective equipmentadequacy & use	Proper equipment not provided or is not adequate for specific hazards.	Partial but inade- quate or ineffective provision, distribu- tion & use of per- sonal protective equipment.	Proper equipment is provided. Equipment identified for special hazards, distribution of equipment is controlled by supervisor. Employee is required to use protective equipment.	Equipment provided complies with standards. Close control maintained by supervision. Use of safety equipment recognized as an employment requirement. Injury record bears this out.
<u>c.</u>	FIRE CONTROL & INDUSTR	IAL HYGIENE			
1.	Chemical hazard con- trol references	No knowledge or use of reference data.	Data available & used by foremen when needed.	In addition to "Fair" additional standards have been requested when necessary.	Data posted & follow- ed where needed. Additional standards have been promul- gated, reviewed with employees involved & posted.
2.	Flammable & explosive materials control	Storage facilities do not meet fire regulations. Containers do not carry name of contents. Approved dispensing equipment not used. Excessive quantities permitted in manufacturing areas.	Some storage facilities meet minimum fire regulations. Most containers carry name of contents. Some approved dispensing equipment in use.	meet minimum fire regulations. Most containers carry name of contents. Approved equipment	In addition to "Good" storage facilities exceed the minimum fire regulations & containers are always labeled. A strong policy is in evidence relative to the control of the handling, storage & use of flammable materials.

SAMPLE SAFETY AUDIT (Continued)

C. FIRE CONTROL & INDUSTRIAL HYGIENE (Continued)

	Activity	Poor	Fair	Good	Excellent
3.	Ventilationfumes, smoke and dust control	Ventilation rates are below industrial hygiene standards in areas where there is an industrial hygiene exposure.	Ventilation rates in exposure areas meet minimum standards.	In addition to "Fair" ventilation rates are periodically measured, recorded & maintained at approved levels.	In addition to "Good" equipment is properly selected & maintained close to maximum efficiency.
4.	Skin contamination control	Little attempt at control or elimination of skin irritation exposures.	Partial, but incom- plete program for protecting workers. First-aid reports on skin problems are followed up on an individual basis for determination of cause.	The majority of workmen instructed concerning skin- irritating mate- rials. Workmen pro- vided with approved personal protective equipment or de- vices. Use of this equipment is en- forced.	All workmen informed about skin-irritating materials. Workmen in all cases provided with approved personal protective equipment or devices. Use of proper equipment enforced & facilities available for maintenance. Workers are encouraged to wash skin frequently. Injury record indicates good control.
5.	Fire control measures	Do not meet minimum insurance or municipal requirements.	Meets minimum requirements.	In addition to "Fair" additional fire hoses &/or ex- tinguishers are pro- vided. Welding per- mits issued. Extin- guishers on all welding carts.	In addition to "Good" a fire crew is or- ganized & trained in emergency procedures & in the use of fire fighting equipment.
6.	Wastetrash col- lection & disposal, air/water pollution	Control measures are inadequate.	Some controls exist for disposal of harmful wastes or trash. Controls exist but are ineffective in methods or procedures of collection & disposal. Further study is necessary.	Most waste disposal problems have been identified & control programs instituted. There is no room for further improvement.	Waste disposal haz- ards are effectively controlled. Air/ water pollution po- tential is minimal.

SAMPLE SAFETY AUDIT (Continued)

D. SUPERVISORY PARTICIPATION, MOTIVATION & TRAINING

	<u>Activity</u>	Poor	Fair	Good	Excellent
1.	Line supervisor safety training	All supervisors have not received basic safety training.	All shop supervisors have received some safety training.	All supervisors participate in division safety training session a minimum of twice a year.	In addition, special- ized sessions con- ducted on specific problems.
2.	Indoctrination of new employees.	No program covering the health & safety job requirements.	Verbal only	A written handout to assist in indoctrination.	A formal indoctrina- tion program to orientate new em- ployees is in effect.
•	Job hazard analysis (JHA).	No written program.	JHA program being implemented on some jobs.	JHA conducted on majority of operations.	In addition, job hazard analyses performed on a regular basis & safety procedures written & posted for all operations.
•	Training for spe- cialized operations (Fork trucks, grind- ing, press brakes, punch presses, sol- vent handling, etc.)	Inadequate training given for special-ized operations.	An occasional training program given for specialized operations.	Safety training is given for all specialized operations on a regular basis & retraining given periodically to review correct procedures.	In addition to "Good" an evaluation is performed annually to determine training needs.
•	Internal self- inspection.	No written program to identify & eval- uate hazardous practices &/or con- ditions.	Plant relies on out- side sources; i.e., Insurance Safety Engineer & assumes each supervisor in- spects his area.	A written program outlining inspection guidelines, responsibilities, frequency & follow up is in effect.	Inspection program is measured by results; i.e., reduction in accidents & costs. Inspection results are followed by top management.
•	Safety promotion & publicity.	Bulletin boards & posters are considered the primary means for safety promotion.	Additional safety displays, demonstrations, films, are used infrequently.	Safety displays & demonstrations are used on a regular basis.	Special display cab- inets, windows, etc. are provided. Dis- plays are used regu- larly & are keyed to special themes.

SAMPLE SAFETY AUDIT (Continued)

D. SUPERVISORY PARTICIPATION, MOTIVATION & TRAINING (Continued)

	Activity	Poor	<u>Fair</u>	Good	Excellent
7.	Employee/supervisor safety contact & communication.	Little or no attempt made by supervisor to discuss safety with employees.	Infrequent safety discussions between supervisor & employ-ees.	Supervisors regu- larly cover safety when reviewing work practices with in- dividual employees.	In addition to items covered under "Good" supervisors make good use of the shop safety plan & regularly review job safety requirements with each worker. They contact at least one employee daily to discuss safe job performance.
<u>E.</u>	ACCIDENT INVESTIGATION	N, STATISTICS AND REPOR	RTING PROCEDURES		
1.	Accident investiga- tion by line per- sonnel.	No accident investigation made by line supervision.	Line supervision makes investigations of only medical injuries.	Line supervision trained & makes com- plete & effective investigations of all accidents; the cause is determined; corrective measures initiated immedi- ately with a comple- tion date firmly established.	In addition to items covered under "Good" investigation is made of every accident within 24 hours of occurrence. Reports are reviewed by the department manager & plant manager.
2.	Accident cause & injury location analysis & statistics.	No analysis of dis- abling & medical cases to identify prevalent causes of accidents & location where they occur.	Effective analysis by both cause & location maintained on medical & first aid cases.	In addition to effective accident analysis, results are used to pinpoint accident causes so accident prevention objectives can be established.	Accident causes & in- juries are graphical- ly illustrated to de- velop the trends & evaluate performance. Management is kept informed on status.
3.	Investigation of property damage.	No program.	Verbal requirement or general practice to inquire about property damage accidents.	Written requirement that all property damage accidents of \$50 & more will be investigated.	In addition, manage- ment requires a vigorous investiga- tion effort on all property damage ac- cidents.
4.	Proper reporting of accidents & contact with carrier.	Accident reporting procedures are in-adequate.	Accidents are correctly reported on a timely basis.	In addition to "Fair" accident re- cords are maintained for analysis pur- poses	In addition to "Good" there is a close li- aison with the insur- ance carrier.

RATING FORM

		Poor	<u>Fair</u>	Good	Excellen	t Comments
Α.	ORGANIZATION & ADMINISTRATIO	N				
1.	Statement of policy, responsibilities assigned.	0	5	15	20	
2.	Safe operating procedures (SOP's).	0	2	15	17	
3. 4.	Employee selection and placement. Emergency and disaster	0	2	10	12	
5.	control planning. Direct management in-	0	5	15	18	
6.	volvement. Plant safety rules.	0 0	10 2	20 5	25 8	
Tot	al value of circled numbers		+	+	+ X	.20 Rating
В.	INDUSTRIAL HAZARD CONTROL					<u> </u>
1.	Housekeepingstorage of					
	materials, etc.	0	4	8	10	
2.	Machine guarding.	0	5	16	20	
3.	General area guarding.	0	5	16	20	
4.	Maintenance of equipment					
	guards, hand tools, etc.	0	5	16	20	
5.	Material handlinghand					
	and mechanized.	0	3	8	10	
6.	Personal protective equip-					
	mentadequacy and use.	0	7	20	20	
Tot	al value of circled numbers		+	+	+ X	.20 Rating
С.	FIRE CONTROL & INDUSTRIAL HY	GIENE				
1.	Chemical hazard control					
	references.	Λ	6	17	20	
2.	Flammable and explosive	O	U	17	20	
۷.	materials control.	0	6	17	20	
3.	Ventilationfumes, smoke	U	U	1,	20	
٠.	and dust control.	0	2	8	10	
4.	Skin contamination control.	0		10	15	
5.	Fire control measures.	0	3 2	8		
6.	Wastetrash collection and	U	2	0	10	
υ.						
	disposal, air/water	Λ	7	20	2.5	
	pollution.	0	7	20	25	
Tot	al value of circled numbers		+	+	+ X	.20 Rating

		Poor	<u>Fair</u>	Good	Excellent	Comments	
D. SUPERVISO	RY PARTICIPATION, MO	TIVAT	ION &	TRAINI	NG		
training.	rvisor safety	0	10	22	25		
Indoctrin employees	ation of new	0	1	5	10		
3. Job hazar	d analysis.	0	2	8	10		
4. Training operation	for specialized	0	2	7	10		
	self-inspection.	0	5	14	15		
	omotion and	U	,	14	13		
publicity		0	1	4	5		
and commu		0	5	20	25		
Total value o	f circled numbers		+	+	+ x .	20 Rating	
E. ACCIDENT	INVESTIGATION, STATI	STICS	& REP	ORTING	PROCEDURES	3	
1. Accident	investigation by						
line supe		0	10	32	40		
	cause and injury						
location statistic	analysis and	0	3	8	10		
	tion of property	O	J	O	10		
damage.		0	10	32	40		
	porting of accidents ct with carrier.	0	3	8	10		
Total value o	f circled numbers		+	+	→ V	20 Rating	
Total value of	r critica namocis		· 	· 	' ^ •	20 Rating	
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	values below are t total becomes the ov						
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	B. Industrial Ha				4		
	C. Fire Control & Industrial Hygiene						
	D. Supervisory Participation,						
	Motivation &		_	C+ - + :			
	E. Accident Inve & Reporting P			Statis:	LICS		
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APPENDIX D EXAMPLES OF SAFETY PROGRAM ASSESSMENT FORMS

Accident Investigation Assessment Form

		Yes	No
1.	Are employees required to report <u>all</u> injuries and property damage incidents?		<u> </u>
2.	Do the accident investigation procedures urge employees to report near miss accidents?	***************************************	
3.	Are first-line supervisors required to investigate and report minor injury accidents?		
4.	Is a written record made of all accident investigations?		
5.	Does a management level above the first-line supervisor participate in serious injury accidents?		
6.	Are the majority of accidents investigated on the day of the occurrence?		
7.	Have supervisors been trained in techniques of accident investigation?		
8.	Do accident reports clearly identify the cause(s) of the accident?		
9.	Are recommendations for corrective action to prevent recurrence implemented in a timely manner?		
10.	Is someone assigned the responsibility of keeping OSHA		

Assessment for Control of Hazards Form

		Yes	No
1.	Is safety and health data readily available to all employees?		
2.	Are material safety data sheets available to supervisors?	*****	
3.	Are safe job procedures and safety rules available to all employees?		,
4.	Are routine safety and health inspections conducted?		
5.	Is there a procedure for handling employee safety and health complaints?		
6.	Are noted safety deficiencies promptly corrected?		
7.	Is there an engineering and administrative control program in effect?		
8.	Is management knowledgeable in the selection, care and maintenance of personal protective equipment?		
9.	Are employees instructed in the correct use and care of personal protective equipment?		
.0.	Is there a program in effect for good housekeeping and and routine maintenance?		

Assessment of Safety Inspection Form

		Yes	No
1.	Does the safety program provide for periodic safety and health inspections?		
2.	Are individuals assigned responsibility for conducting inspections?		
3.	Do management and employees conduct joint inspections?		
4.	Does management have an abatement program in effect?		
5.	Does the inspection cover materials storage and material handling?		
6.	Does the inspection cover housekeeping in general and and particularly for walking and working surfaces?		
7.	Does the inspection cover the use, care and maintenance of personal protective equipment?		
8.	Does the inspection cover access and exit to work areas?		
9.	Does the inspection cover use, care and maintenance of hand tools (powered and unpowered)?		
10.	Does the inspection cover physical and chemical hazards?		

Assessment of Safety Training Form

		Yes	No
1.	Are all new employees given a safety orientation before they start work?		
2.	Are employees, old or new, provided with safety job instruction when assigned to a new job?		
3.	Is the training directed to the specific hazards of the new job?		
4.	Has management identified those persons responsible for training employees?		
5.	Are safety rules and practices periodically discussed with all employees?		
6.	Is a portion of each safety meeting devoted to providing safety instruction for upcoming work?		
7.	Have safety training responsibilities been assigned to someone?		
8.	Are training priorities being assessed?		
9.	Are the training objectives clearly defined?		
10.	Is the training program periodically evaluated?		

Assessment of Safety Attitude Form

		Yes	No
1.	Do supervisors observe stated safety rules and safe job procedures?	-	,
2.	Do employees perceive management as doing a good job at correcting reported unsafe conditions?		
3.	Are employees given the opportunity to take an active role in the safety program?		···-
4.	Are plant safety rules posted and made available to all employees?		···
5.	Are reasons for the safety rules explained to the employees?		
6.	Does management reinforce safe employee behavior?		
7.	Are noncooperative employees reprimanded for infractions of plant safety rules and practices?		····
8.	Does management support supervisor efforts to enforce plant safety rules and practices?	 .	
9.	Do employees feel that management is interested and involved in the safety program?	 .	
10.	Does management feel that the employees are interested and involved in the safety program?		

Assessment of Safe Work Procedures Form

		Yes	No
1.	Have accident repeater jobs been identified and analyzed to develop safer procedures?		
2.	Have safe job procedures been standardized for hazardous jobs?		
3.	Are hazardous tasks covered by written safe job procedures?		
4.	Do supervisors develop written safe job procedures?		
5.	Are employees encouraged to participate in development of written safe job procedures?		
6.	Are written safe job procedures prepared prior to initiation of new jobs or tasks?		
7.	Do supervisors periodically observe hazardous jobs or tasks to determine if safe work procedures are being utilized?		
8.	Are hazardous jobs or tasks accomplished the same by all work crews or shifts?		
9.	Are written safe job procedures used to train employees?		
10.	Are written safe job procedures periodically updated for improving work methods?		

Assessment of Management's Participation in Safety Form

		Yes	No
1.	Is the plant safety program a topic on the manager's staff meeting agenda?		
2.	Do middle managers periodically conduct safety meetings with subordinate supervisors?		
3.	Do middle managers conduct safety inspections?		
4.	Does the plant manager review periodic reports of plant accidents?		
5.	Does management promptly correct unsafe conditions?		
6.	Does management encourage employees to report hazardous conditions?		
7.	Does management encourage employee safety suggestions?		
8.	Does the plant have procedures for handling emergencies?		-
9.	Do members of management observe the plant's stated safety rules and practices?		
.0.	Are all levels of managers held accountable for their safety responsibilities?		

Summary

The assessment forms address samples of various questions which may be asked concerning the safety program. The questions presented on the sample forms are not intended to represent the most important to be answered. They are intended to be examples only. Management may desire to find answers to other areas of the safety program which are considered problem areas and should develop an assessment tool which would yield those answers.

Adapted from Evaluation of Safety and Health Program and Operation Zero Accident Prevention Fundamentals [45,47].

GLOSSARY

aggregate

Hard, inert mineral rock fragments or materials such as sand, gravel, or slag used for mixing with a cementing material to form concrete. Fine aggregate is sand and other finely graded materials. Coarse aggregate is the large material that passes through sieve openings of one-fourth inch or more.

bull float

A tool used to spread out and smooth the concrete.

bush hammer

An air-powered reciprocating tool used to give a textured appearance to architectural concrete products by roughening the surface.

camber

(a) The upward deflection that occurs in prestressed concrete elements due to the net bending resulting from stressing forces and self-weight. It specifically does not include dimensional inaccuracies. (b) A built-in upward curvature in some molds for precast concrete other than prestressed to avoid deflection under load to below a defined line of finished product.

cement

Any of various construction adhesives, consisting essentially of powdered, calcined rock and clay materials, that form a paste with water and can be molded or poured to set as a solid mass.

concrete

A mixture of cement, sand, and aggregate with water that hardens by chemical curing into a final product similar to stone in texture, weight, and durability.

connection

A device for attachment of precast concrete elements to each other or to a building structure.

curing

The maintenance of humidity and temperature of freshly placed concrete during some definite period following placing, casting, or finishing to ensure satisfactory hydration of the cementitious materials and proper hardening of the concrete. When the curing temperature remains in the normal environmental range (generally between $10^{\rm O}$ C and $30^{\rm O}$ C), the term "normal curing" is used. When the curing temperature is increased to a

higher range (generally between 30° C and 70° C), the term "accelerated curing" is used.

deflecting of strand

The process of creating draped strand.

detensioning of strand or wire

The release of tension from the tendon, usually occurring at the time the prestressing force is transferred from the bed anchorage to the individual pieces cast in the bed.

detensioning strength or

hardware

jig

The minimum concrete strength specified for individual concrete elements before the prestressing force may be transfer strength transferred to them.

A strand that is held up at specific points, and held draped strand down at others, to form a special desired profile.

Concrete designed with very low water/cement ratios and dry-mix concrete slumps to be used with special consolidation methods, tamping, or extrusion production equipment.

Materials (usually wood) used dunnage for keeping products from touching each other or other materials during storage and transportation.

form A structure or mold for the support of concrete while it is setting and gaining sufficient strength to be selfsupporting.

A substance applied to the forms for the purpose of preform release venting a bond between the form and the concrete cast in agent it.

formwork The system of support for freshly placed concrete, including the mold or sheathing that contacts the concrete as well as all supporting members.

grips The parts of a strand vise that actually contact or grip the wires or strands.

> A collective term used to cover all items embedded in the concrete (other than reinforcement) or otherwise used in connecting precast elements or attaching or accommodating adjacent materials or equipment.

> A device to align parts of an assembly, usually for preassembling reinforcing steel and hardware cages, with a minimum of measurement and consistent accuracy, from one cage to the next.

lifting frame (or spreader beam)

A device designed to provide two or more lifting points of a precast concrete element with predictable load distribution and prearranged direction of pulling force during lifting.

machine-cast products

Products cast by one or more machines specifically designed for the purpose. Slipform and extrusion machines are types of casting equipment used to make solid or hollow-core slabs.

machine finish

Finishes applied by special tools while the concrete is still in the forms and plastic.

no-slump concrete

Concrete with a near-zero slump to be used with special consolidation methods, tamping, or extrusion production equipment.

precast concrete

A concrete element cast in a location other than its final position in service. Precast concrete may be produced at the job site, in temporary plants, or in permanent factories.

precast concrete element

A general term for any precast product regardless of classification or application. The term includes any nonconcrete items incorporated in the element at the time of manufacture.

prestressing bed

The platform and abutments needed to support the forms and maintain the tendons in a stressed condition during placing and curing of the concrete.

retarder

An admixture that delays the setting of concrete paste.

screeding

The smoothing or leveling off of freshly cast concrete by manual or mechanical means. A screed usually has a wooden or metal edge that is moved horizontally across the concrete, pushing excess material in front of it and filling in low places.

self-stressing
forms

Equipment that, in addition to serving as forms for concrete, accommodates the pretensioned strands (or wires) and sustains the total prestressing force by suitable end bulkheads and sufficient cross-sectional strength.

slump

The drop from the top of a slump cone to the top of the unsupported concrete after the sudden removal of the supporting slump cone. The difference in height, measured in inches or centimeters, is the slump of the concrete. A wet or soft mix slumps more than a dry or stiff mix.

strand chuck A device for holding a strand under tension.
or vise

stripping The process of removing a precast concrete element from the form in which it was cast.

two-blocking The action of the crane hook block being pulled into the crane boom head.

water/cement The weight of water relative to the weight of cement in a concrete mix. Enough water must be added to the mix to provide hydration. Excess water improves workability but reduces strength.

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