

FIRESAFETY
 BUILDING FIRESAFETY INSPECTION AND QUALITY MEASUREMENT

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1. GENERAL	1	1.01 This section replaces AT&T Section 770-310-300. It is issued to outline a procedure for inspecting and evaluating the administration of firesafety responsibilities in the building operation organization, to observe that work is being performed in accordance with the established firesafety standards, and to recommend preventive or corrective measures as required by the operations or the methods employed. It is intended to serve as an aid for the administration of this function within the building operation organizations.
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HOUSEKEEPING-CLASSIFICATION NO. 2	4	
ELECTRICAL PROTECTION-CLASSIFICATION NO. 3	5	1.02 Whenever this section is reissued, the reason(s) for reissue will be listed in this paragraph.
OCCUPANCY CONTROL-CLASSIFICATION NO. 4	5	
PORTABLE FIRE EXTINGUISHERS-CLASSIFICATION NO. 5	5	1.03 Firesafety in Building Operations may be defined as those efforts exerted on an ongoing basis to insure the proper administration and effective implementation of fire prevention and protection practices.
DETECTION SYSTEMS-CLASSIFICATION NO. 6	6	
SUPPRESSION SYSTEMS-CLASSIFICATION NO. 7	6	
OTHER BUILDING SYSTEMS-CLASSIFICATION NO. 8	6	1.04 It is intended that inspections will be made by personnel qualified to recognize and evaluate the firesafety condition of the building and to recommend corrective measures if the quality of the work or methods employed require them. The plan for inspection herein does not supersede day-to-day supervisory observation or any sections of the Bell System Accident Prevention Plan but should serve to supplement them.
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1.05 Frequency of Inspection: Building firesafety inspections are scheduled at such intervals as local conditions may require. It is recommended, however, that this inspection format be used as part of an operational review by local management to complete a building inspection at least annually at each location.

2. INSPECTION FORM AND CHECKLIST

2.01 For the purpose of inspection, fire-safety is divided into the following nine classifications:

1. Inspections
2. Housekeeping
3. Electrical Protection
4. Occupancy Control
5. Portable Fire Extinguishers
6. Detection Systems
7. Suppression Systems
8. Other Building Systems
9. Emergency Preparedness

2.02 An inspection report, Form SW-6409 (Exhibit 1), shall be used for guidance and rating in making an inspection. A copy of this form completed for a typical inspection along with example checklists are shown in Exhibit 1. The form provides a list of the classifications as well as space for general information regarding the building upon inspection. Part two of the form contains a checklist and space for notes. Typical conditions to be observed are contained in paragraphs 5.01 through 5.15 of this section and in the checklist.

2.03 Form SW-6409 is available through hard copy requisition procedures. The minimum order through these procedures is 500 copies of the form.

2.04 For ease of identification, notes made on items requiring attention should be referenced by the classification number to which they pertain with specifics as to the exact location.

2.05 The form also includes a table for evaluating results. Numerical values of 0 through 10 are established for each of the nine classifications, and each is then multiplied by its assigned weighting factor. The inspection plan thus indicates whether a balanced job is being done and, if not, where attention is necessary to bring all classifications to the desired level. This may be accomplished by additional redirected effort, more supervisory attention, or other action.

2.06 The conditions observed under each classification are initially considered in terms of Higher Than Objective Band (10.0 - 9.6), Within the Objective Band (9.5 - 9.0), Lower Than Objective Band (8.9 - 7.0), or Unsatisfactory Band (6.9 - 0) with the appropriate quality rating number assigned. For example, a detection system that is being tested in accordance with current practices and has no deficiencies is rated in the Objective Band. Further definition of the bands is as follows:

- (H) Higher Than Objective Band--More than demands, possibly not cost effective.
- (O) Within the Objective Band--Within service demands and cost effective.
- (L) Lower Than Objective Band--Less than satisfactory, needs improvement.
- (U) Unsatisfactory Band--Unsatisfactory service level, immediate attention required.

2.07 Care should be exercised in assigning quality ratings to the various classifications. They should be assigned on an impartial basis and should be based on conditions that exist at the time of the inspection.

2.08 A factor that will influence the total quality value is the absence of one or more classifications in a particular building. For example, the building covered by Exhibit 1 is an equipment building without a suppression system. The letters N/A (not applicable) would be entered in the column adjacent to this classification. The absence of a quality rating in the missing classification would reflect a total quality value lower than if it were included. This is compensated for by dividing the Total Quality Value by the Total Weighting Factor.

2.09 A single form may be used for one building. In the case of a large multistory building, several floors may be selected as representative of the entire building. On subsequent inspections, other floors should be considered for inspection. The selected floors should be noted on the form. A quality result for the entire building is determined from the conditions

observed on the selected floors as well as the common systems, such as the suppression and detection systems. If a more detailed report is desired or the size of the building warrants, each floor may be entered on separate forms. These can be averaged and consolidated on a single form to establish an overall quality index for the building.

3. PRELIMINARY PROCEDURE

3.01 Before starting the actual inspection, fill in the data on the inspection form (i.e., the date, building name, address, city and state, geographic location code, sector/zone, number of floors, clearance group, building square footage, and population).

3.02 The population includes all company and non-company employees regularly housed in the building.

4. INSPECTION PROCEDURES

4.01 Inspection is performed by observation of all items shown in the following paragraphs and of any others observed while walking around and through the building from roof to basement.

4.02 The items listed in subsequent paragraphs under headings corresponding to the subdivisions on the inspection form are those points that should be considered in rating the quality of the firesafety job being performed.

4.03 It should be noted that the following list is by no means complete, but will serve as a base for evaluating the firesafety job being performed. Other items requiring attention, that become evident during the inspection, should be noted for future reference to the appropriate party.

These items should not influence the quality rating assigned to a particular classification.

4.04 The checklist contains two columns adjacent to the principal conditions to be observed. The first is for indicating the condition and should be noted [✓ (deviation), OK, N/A (not applicable)] and the second is for notes. The notes made on items requiring attention may be used for reference in preparing annual budgets for firesafety related repair and rearrangement work.

5. PRINCIPAL CONDITIONS TO BE OBSERVED

INSPECTIONS-CLASSIFICATION NO. 1

5.01 General:

- . Fire Protection Consultant Report available.
- . Building operational recommendations on Inspection Report completed by Fire Protection Consultant.
- . Firesafety Inspection Report (E-5689) completed monthly (by Firesafety Director or Deputy Firesafety Director).
- . Firesafety Inspection Report (E-5689) completed annually (by Firesafety Director, Deputy Firesafety Director, or accompanied by someone from building operations).
- . Gas inspection and testing conducted annually.

HOUSEKEEPING-CLASSIFICATION NO. 2

5.02 General:

- . Combustible trash removed from building daily.
- . Rubbish outside of building at least 20 feet from any building opening.
- . Pipe chases, vertical shafts, stairwells, etc, clear of combustible materials.
- . Metal waste cans provided for disposal of paint rags, oil rags, wiping cloths, etc, emptied daily.
- . Oil cleaning mops and rags kept in covered metal containers.
- . Storerooms clean and orderly.
- . Storage not in contact with heat-producing equipment.
- . Elevator pits clean.

5.03 Storage and Handling of Flammable Liquids:

- . Benzene, naphtha, alcohol, terps and gasoline prohibited.
- . Motor oil, automotive grease, diesel oils properly stored.
- . Smoking and open flames prohibited in flammable liquid storage areas.
- . Portable gas-powered machinery drained when stored within building.
- . Paint in original containers, in storage cabinets.

ELECTRICAL PROTECTION-CLASSIFICATION NO. 3

5.04 General:

- . Portable appliances, tools, and building equipment "Underwriter's Laboratory" (UL) listed.
- . No frayed cords, loose wires.
- . No electrical cords in contact with metallic or heat-producing surfaces.
- . No open or broken lighting fixtures or other electrical appliances.
- . No missing or broken coverplates for electrical boxes or outlets.
- . Doors or covers to electrical distribution panels kept closed.
- . No indications of overfusing or overheating.
- . No electrical outlets overloaded.
- . Portable electrical heating devices (hot plates, coffeepots, etc) provided with pilot lights.

OCCUPANCY CONTROL-CLASSIFICATION NO. 4

5.05 General:

- . Combustibles necessary for work operations stored on metal shelving.
- . Packaging materials retained for future shipments enclosed in metal lockers.
- . Scrap wire bags in metal containers.
- . Ashtrays are the type with a lid which can extinguish smoking material.

- . No smoking rules enforced.
- . Fire doors kept closed.
- . Cable holes properly packed and sealed, certification seal intact.
- . Distributing frame slots and holes properly packed and sealed.
- . Sleeves, house telephone penetrations, etc, firestopped.
- . Construction areas policed.
- . Noncombustible, flameproofed furnishings, rated finishes, drapes treated.
- . Welding and cutting supervised, fire watch.

PORTABLE FIRE EXTINGUISHERS-CLASSIFICATION NO. 5

5.06 General:

- . Portable fire extinguishers easily located.
- . Portable fire extinguishers sealed.
- . Portable fire extinguishers maintained annually, on E-5962.
- . Portable water and CO₂ fire extinguishers hydrostatically tested every 5 years, dry chemical and Halon every 12 years, on E-5962.
- . Dry chemical extinguishers recharged every 6 years, on E-5962.

DETECTION SYSTEMS-CLASSIFICATION NO. 6

5.07 General:

- . Fire detection system operating.
- . One detector head/zone/semiannually tested.
- . One pull box/zone activated semi-annually.
- . Control and annunciator panels maintained annually.
- . Alarm devices inspected annually.
- . Ventilation duct detectors cleaned annually.
- . Detector heads on 4-year maintenance program.
- . Routines and tests logged (Form SW-7376).

SUPPRESSION SYSTEMS-CLASSIFICATION NO. 7

5.08 Standpipe and Sprinkler Systems:

- . Siamese connection covers easily removed.
- . Standpipe and sprinkler control valves sealed in wide open position.
- . No standpipe or sprinkler valves leak.
- . Standpipe and sprinkler piping maintained, logged.

5.09 Fire Pumps:

- . Fire pumps run quarterly, logged.
- . Fire pumps capacity tested annually, logged.

5.10 Hose Stations:

- . Hose stations inspected annually, on E-5962.
- . Lined fire hose hydrostatically tested every 5 years, on E-5962.
- . Unlined hoses replaced after 12 years (open), 15 years (enclosed).

5.11 Special Systems:

- . Fire extinguishing systems in kitchen routined semiannually per manufacturer's guidelines.
- . CO₂ and Halon 1301 flooding systems routined annually.

OTHER BUILDING SYSTEMS-CLASSIFICATION NO. 8

5.12 General:

- . Kitchen hoods, grease filters, and ducts clean, cleaned regularly.
- . Miscellaneous building penetrations firestopped.
- . Fire dampers routined, locations marked.

- . Fire doors close and latch properly.
- . Fire shutters inspected annually, tested biannually, logged.
- . Building equipment alarms tested (firestats, boiler, etc), logged.

EMERGENCY PREPAREDNESS-CLASSIFICATION NO. 9

5.13 Firesafety Plan:

- . Firesafety Plan binder maintained, up-to-date.
- . Firesafety organization required, posted, up-to-date.
- . Fire brigade organizational statement required, posted.
- . Fire command station required.
- . Written plan required, up-to-date.
- . List of handicapped personnel, up-to-date.
- . Fire emergency procedures posted.
- . Evacuation Diagrams or Fire Protection Floor Plans posted.
- . Fire Drills conducted semiannually.

5.14 Employee Safety:

- . Personnel know locations of fire alarm pull boxes.
- . Employees trained in alarm response, procedures, responsibilities.

- . Employees familiar with types of fires and principles of extinguishment.
- . Employees know proper operation and use of the different types of portable extinguishers, standpipe and hose systems.

- . Exit and emergency lights maintained in working order.

- . Fire doors, exits unlocked.

- . Doorways, corridors, stairways, aisles, etc, free of obstructions.

- . BSAPP reviewed with management and craft personnel.

5.15 Firefighting Provisions:

- . Free access to firefighting equipment.

- . Free access to outside standpipe connections and hydrants.

- . Fire department access openings not obstructed.

- . Locations of emergency gas and water shutoff valves posted, wrenches available.

- . Building and facilities reviewed annually with local fire department.

6. SUMMARY

6.01 The following is a summary of the overall inspection and quality measurement process.

- . Fill in the general data regarding the building on Form SW-6409.
- . Walk through the building, noting all deviations on the checklist.
- . Review the checklist, completing all spaces. (Ensure that all items are checked.)
- . Enter numerical ratings in the Quality Rating (Q.R.) column for all classifications rated.
- . Multiply each Q.R. by the assigned weighting factor (WF) and enter the resultant figure in the Quality Value (Q.V.) column.
- . Total the individual Q.V.'s and enter in Total Q.V. space.
- . Add the WF's of all classifications rated and enter in the Total W.F. space.
- . Divide the Total Q.V. by the Total W.F. and enter the result in the Quality Index space.
- . Enter in the Band space the alphabetical band (H,O,L, or U) which corresponds to the numerical Quality Index.
- . Note any unusual conditions.

EXHIBIT 1

SW-6406
(10-83)

BUILDING FIRESAFETY INSPECTION

Retain 1 year, until Superseded
(REF. B.S.P. 770-310-901SW)Date 9-16-83

Building Name SANDY VALLEY #2ESS
 Address 123 OAK STREET
 City & State ANYTOWN, U.S.A.
 Geo. Loc. Code XX0000
 Sector/Zone 1/WEST
 No. Fls. 1 + BSMT Cl. Grp. 2
 Bldg. 5,084
 Population 3

	H	O	L	U		
	Higher Than Objective	Objective Band	Lower Than Objective	Unsatisfactory Band		
	10.0-9.6	9.5-9.0	8.9-7.0	6.9-0		
	Classification			Q.R.	W F	Q.V.
1	Inspections			9.3	1.0	9.30
2	Housekeeping			9.3	1.5	13.95
3	Electrical Protection			9.0	0.5	4.50
4	Occupancy Control			9.1	1.5	13.65
5	Portable Fire Extinguishers			9.5	1.0	9.50
6	Detection Systems			9.5	1.5	14.25
7	Suppression Systems			N/A	1.0	N/A
8	Other Building Systems			9.5	1.0	9.50
9	Emergency Preparedness			9.5	1.0	9.50
				TOTAL Q.V.	<input checked="" type="checkbox"/>	84.15
				TOTAL W.F.	9.0	<input checked="" type="checkbox"/>

Q.R. — Quality Rating (Use Tenths)
 Q.V. — Quality Value (Use Hundredths)
 W.F. — Weighting Factor

$$\text{QUALITY INDEX} = \frac{\text{TOTAL Q.V.}}{\text{TOTAL W.F.}} = \boxed{9.4} \text{ BAND } \boxed{0}$$

Note Any Unusual Conditions Below

EXHIBIT 1 (Continued)

BUILDING FIRESAFETY CHECKLIST

Check Items As Indicated
Status (✓ Dev., OK, N/A)

Bldg. SANDY VALLEY #2ESS Floor 1

1. INSPECTIONS	STATUS	NOTES, LOCATION, ETC.
.01 General	XXXX	
Fire Consultant Report Available	OK	
Bldg. Oper. Items Complete	OK	
E-5689 Completed Monthly	OK	
Annually With Bldg. Oper.	OK	
Gas Testing Conducted	✓	GAS TEST 2 MOS. LATE
2. HOUSEKEEPING	STATUS	
.01 General	XXXX	
Comb. Trash Removed	OK	
Rubbish Outside 20 Ft.	✓	CARDBOARD BOXES STACKED AT REAR EXIT
Shafts, Stairwells Clear Of Comb.	OK	
Paint, Oil, Rag Cont., Emptied	OK	
Storerooms Clean & Orderly	OK	
No Heat Contact Storage	OK	
Elevator Pits Clean	N/A	
.02 Storage & Handling Of	XXXX	
Flammable Liquids	XXXX	
Flamm. Liquids Prohibited	OK	
Comb. Liquids Stored	OK	
No Smoking, Flames In Storage	OK	
Port. Gas Machinery Drained	OK	
Paint In Containers, Cabinets	OK	
3. ELECTRICAL PROTECTION	STATUS	
.01 General	XXXX	
Appl., Tools, Equip. UL Listed	OK	
No Frayed Cords, Loose Wires	OK	
No Contact Metal Or Heat	OK	
No Open Or Broken Fixt., Appl.	✓	1 LIGHT FIXTURE - MEN'S RM 1ST FLR
No Missing Or Broken Covers	✓	2 SOUTH WALL - BSMT
Elec. Distribution Panels Closed	OK	
No Overfusing Or Overheating	OK	
No Outlets Overloaded	OK	
Port. Appliances W/Pilot Lights	N/A	

NOTES:

EXHIBIT 1 (Continued)

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4. OCCUPANCY CONTROL	STATUS	NOTES, LOCATION, ETC.
.01 General		
Necessary Comb. Stored	OK	
Packaging in Metal Lockers	OK	
Scrap Wire in Metal Containers	OK	
Approved Ashtrays	OK	
No Smoking Rules Enforced	✓	EVIDENCE OF SMOKING IN C.O. 1 PROPPED OPEN TO LOUNGE
Fire Doors Kept Closed	✓	
Cable Holes Packed, Sealed	OK	
Cable Holes Certified	OK	
DF Openings Packed, Sealed	OK	
Sleeves, Penetrations Firestopped	OK	
Construction Areas Policed	N/A	
Rated Furnishings, Finishes	OK	
Drapes Treated	N/A	
Welding, Cutting Supervised	N/A	
5. PORTABLE FIRE EXTINGUISHERS	STATUS	
.01 General		
Easily Located	OK	
Sealed	OK	
Maintained, On E-5962	OK	
Hydrostatically Tested, On E-5962	OK	
Dry Chem., Halon Recharged, On E-5962	N/A	
6. DETECTION SYSTEMS	STATUS	
.01 General		
Operating	OK	
One Head/Zone/Semiannually Tested	OK	
One Pull Box/Zone Activated Semiannually	OK	
Control, Ann. Panels Maintained	OK	
Alarm Devices Inspected	OK	
Duct Detectors Maintained	OK	
Detector Mtce. Program	OK	
Routines, Tests Logged	OK	

NOTES:

EXHIBIT 1 (Continued)

7. SUPPRESSION SYSTEMS	STATUS	NOTES, LOCATION, ETC.
.01 Standpipe And Sprinkler Systems	X	
Siamese Cov. Removable	N/A	
Valves Sealed	"	
No Valves Leak	"	
Piping Maintained	"	
.02 Fire Pumps	X	
Run Quarterly	N/A	
Capacity Tested	"	
.03 Hose Stations	X	
Inspected, On E-5962	N/A	
Lined Hydro Tested, On E-5962	"	
Unlined Replaced	"	
.04 Special Systems	X	
Kitch. Fixed Pipe Ext. Insp.	N/A	
CO ₂ , Halon Routined	"	
8. OTHER BLDG. SYSTEMS	STATUS	
.01 General	X	
Kitchen Vent Clean	N/A	
Bldg. Penetrations Firestopped	OK	
Fire Dampers Routined	OK	
Fire Doors Close, Latch	OK	
Fire Shutters Insp., Tested	OK	
Bldg. Equip. Alarms Tested	OK	

NOTES:

EXHIBIT 1 (Continued)

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9. EMERGENCY PREPAREDNESS	STATUS	NOTES, LOCATION, ETC.
.01 Firesafety Plan	X	
Binder Maintained	N/A	
Organization Req'd., Posted	N/A	
Statement Req'd, Posted	N/A	
Command Station Req'd.	N/A	
Written Plan Req'd.	N/A	
Handicapped List	N/A	
Emerg. Procedures Posted	OK	
Drawings Req'd., Posted	OK	
Fire Drills Conducted	OK	
.02 Employee Safety	X	
Personnel Know Pull Boxes	OK	
Alarm Response	OK	
Principles Of Extinguishment	OK	
Oper. Ext./Standpipe	OK	
Exit, Emerg. Lts. Maintained	OK	
Fire Doors, Exits Unlocked	OK	
Doors, Corr., Aisles, Etc. Free	OK	
BSAPP Reviewed	OK	
.03 Firefighting Provisions	X	
Free Access Equipment	OK	
Free Access Outside Conn.	OK	
F.D. Access Openings Free	OK	
Loc. Gas/Water Shutoffs	OK	
Facilities Reviewed	OK	

NOTES: