Building Name Address	Use (as per FSA Annexed Table 1)	Date and Time of Incident	Structure and Stories Area	Extent of Damage (Damaged Area/ Total Area)	No. of Casualties
Seibu Department Store, Ltd.	Department Store (4)	Aug. 22, 1963 Breakout at 17:30 (approx.)	Fire resistant 8 stories above ground and 2 below	All, Half, Partial, Small	Fatalities 7
		Noticed at 13:11 Notified by emergency call Extinguished by 20:35	Building Area 7,250m ²	10,250 m ²	Injured
2-8 Higashi-Ikebukuro, Toshima-ku, TOKYO			Total floor area 69,350 m ²	(15%)	216 (204)

I. Summary of Fire Incident

1) Summar

Due to negligence of a renovation contractor who carried out insecticide treatment on the building during off-business hours, a highly flammable chemical caught fire and the fire spread instantly. Although the department store had maintained a fire prevention system, they failed to make an emergency call to the fire station. The delayed arrival of firefighters, heavy smoke and excruciating heat resulted in 7 fatalities and 216 injuries.

(2)	FL	Gross	Damaged	Use (Purpose)	No. of	No. of	Fire escape	Firefighting
		area	area		persons	fatalities	equipment	equipment
) no		m^2	m ²		4 inside		8 sets of	Fire extinguishers
diti					the ELV		inside stairs	
Conditions	RH ₂	117.0						Indoor fire
s per	RH₁	284.4			12		1 set of	hydrants
Ϋ́F	8	6,983.5	4,387	Office, Hall	95		outside stairs	
Floor	7	7,250.1	5,863	Sales,	76	7		Automatic fire
_				Restaurant				detection system
	6	7,250.1		Sales	1		7 sets of	
	5	7,250.1		Sales	15		escape	Water pipe
	4	7,250.1		Sales			chutes on 3rd	connections
	3	7,250.1		Sales	1		to 7th floors	1 A1 A A A A A A A A A A A A A A A A A
	2	6,631.9		Sales	26			MM-type fire alarm
	1	6.653.2		Sales	21			(automated fire
	B1	7,159.6		Sales	2			transmitter)
	B2	5,269.9		Machine room	41			
	Total	63,350.0	10,250		294	7		

(4) Cause of Fire

Origin of I

(Floor, Room, Part, Combustibles, <u>Habitable</u>/Non-habitable rooms, <u>Present</u>/Absent)

- The fire emerged from the hallway in front of the escalator shutter that was located in front of the restaurant on the 7th floor.
- At that time, 17 to 18 people (contractors, restaurant staff and shutter maintenance workers) were working in the vicinity with canned pesticide solution and sprayers.

The store was closed for the day and a few contractors were spraying pesticide in the restaurant on the 7th floor. During a break, one of the contractors lit a cigarette and threw a burning match away on the floor. The match ignited the pesticide solution (highly flammable liquid, equivalent of gasoline) that someone spilled on the floor earlier while refilling the sprayer.

it.

of the people present did not know how to use it or mishandled

closed because the store was closed, except for

the shutters on the 7th and 8th floors, which were

mostly open to allow for pesticide treatment and

construction work.

III. Actions Taken after the Fire was Detected (1) First Detected Detected by (Contractor who threw away the match) How and why (Sound of fire and flames) Action taken (Contractor tried to put it out with certain items) After contractor K threw away the match, he heard an unusual sound and saw flames. With two of his colleagues, he tried to put out the fire with certain items and moved the cans containing the pesticide solution. However, the fire was already out of control. Therefore, he alerted Team Leader N who was working near the bathroom on the south-side stairs. When N came back to the site, the flames were already spreading to the ceiling and K and N called the security office from the emergency phone located on the stairway. Yes []() Time elapsed since the discovery () minutes (2) Emergency Cal **Emergency** No [X] (Notified by a train station worker Call nearby) No-one made a 119 call from the store. A station employee at Ikebukuro Station (JNR) who was at the platform noticed black smoke pouring out of the 7th floors of the Seibu Department Store and made a 119 call (1st call to the fire station at 13:11). * The receptionist at the security office of the store received the emergency call from the contractors on the 7th floor and made a 119 call; however, her call did not get through and she gave up. Although there was an MM-type fire alarm, which directly sends a distress signal to the fire station at just the push of a button, no-one activated it before going to check the location of the fire. (Reasons or Conditions) Successful [] Failed [X] (3) Initial Firefighting Activities Contractor K tried to extinguish the fire with his colleagues Extinguished time **Initiated** but failed to do so because the flames from the flammable Firefighting difficulties liquid (Category 1, petroleum-like substance) spread Firefighting method] instantly. Other contractors who were working near the fire location tried to use the fire extinguishers and the indoor fire Extinguished time] hydrants, but did not know how to use them or were Firefighting difficulties Not Initiated unaware that they were supposed to depress the run button. Firefighting method [] Other [] (Obstacles or Difficulties in Fire Control) (4) Summary of Firefighting Activities o In this high-rise building fire, firefighting operations were affected by various adverse conditions: the 3 sides of the department store were physically inaccessible (rail-tracks on the west side, ongoing construction on the south side and in another building (Marubutsu Department Store) on the north side) and therefore, most of the firefighters and the equipment were gathered on the east side of the building. In addition, the transit wires of the trolley bus were a big obstacle for the ladder trucks to reach over to the 7th floor (source of the fire). • The building was partitioned into the smaller compartments with few openings and was not equipped with any smoke exhausting system. Therefore, the smoke and heat drifted inside the building for a long period, completely hampering firefighting operations. o In addition, the firefighters first on the scene could not enter the building due to the locked fire doors and shutters.

5	Means of Escape (No. of Persons)	Obstacles to Evacuation				
) Evacuation	 Stairs [X]() Elevator/Escalator [X] (20) Escape equipment [] () Directly to the ground from windows or openings []() Rescued [X] (2) Other (by helicopter) [X](15) 	 No windows [] Barred openings [] Locked emergency doors (Exits) [] Alarm system [] (Poorly controlled, Malfunctioned, Not installed) Power outage [] Other [X] 				
	• Among the evacuees who were on the 7th floor, two contractors ran to the south-side stairs and jumped onto the scaffolding					

- Among the evacuees who were on the 7th floor, two contractors ran to the south-side stairs and jumped onto the scaffolding being used in the construction work. One security personnel and one contractor ran to one set stairs but the path was blocked by a fire shutter. They just managed to escape to an open-air area, and were rescued by a ladder truck 30 minutes later. Over 70 persons ran to one set stairs in a group and evacuated the building.
- From the 8th floor, approximately 70 persons who were separated into two groups escaped through the stairs on the north and south sides (among them, approximately 40 ran up to the rooftop). Approximately 20 persons escaped via an elevator (6 who became trapped in the elevator managed to reach the 8th floor and ran to the rooftop).
- From a total of 55 persons (including those who came from the 8th floor) who evacuated to the rooftop, 15 were rescued by helicopter and the remainder ran down the outside stairs to the ground.

(6) Causalities

Healthy individuals 7
(Drunk persons)
Individuals in need of assistance
Infants
Elderly
Handicapped
Patients/ill persons

Obstacles to Evacuation

No windows []
Barred openings []
Locked emergency doors (Exits) []
Alarm system [] (Poorly controlled, Malfunctioned, Not Installed)
Power outage []
Other [X]

- ° Resulted in 7 casualties (all male, 4 on the 7th floor and 3 inside the elevator shaft).
- When the fire broke out, all the shutters were closed except for those that has been opened intentionally. Presumably, the 4 persons on the 7th floor were trapped by the black smoke from the combustion of the flammables. (One person was found near the closed shutter, 3 persons were found in the kitchen; they may found out about the fire much later).
- As for the 3 persons who died inside the elevator shaft, initially 9 persons entered the elevator on the 2nd floor. As soon as the elevator door was opened on the 7th floor, heavy smoke flowed in. Since they could not close the door and the elevator was no longer working, they opened the ceiling hatch to climb up to the 8th floor. Six of them safely reached the 8th floor, while the body of 1 person was found hanging off the bracket and 2 persons who might have become unconscious due to smoke were found at the bottom of the elevator shaft.

IV. Issues and Lessons Learned

- 1. The store failed to prepare for the initial reaction to a fire. Despite the fire prevention training provided, the in-house firefighters were preoccupied with internal communication and gave up preventing the fire from spreading on the initial attempt.
- 2. The store failed to enforce the fire safety guidelines effectively for contractors.
- 3. Although there were 300 people on the building when the fire broke out, no-one made a 119 call. A significant amount of time had elapsed before the train station worker made the first 119 call after witnessing flames and smoke coming out of the building.
- 4. The store failed to utilize the early notification system. The automatic fire detection system was to be used to explicitly inform of a fire. However, the store staff members were scrambling to confirm the fire and no one activated the MM-type fire alarm.
- 5. The fire compartment shutters on the 7th and 8th floors were partly open due to the ongoing construction work and no one closed the shutters before starting to evacuate. Therefore, the shutters did not function as designed and thus fire spread to other areas.
 - (1) The store was a terminal building immediately next to the rail tracks. The opposite side of the building was also undergoing large-scale construction for underground parking and the track wires for a trolley bus extended all over the area.
 - (2) There were no windows on one part of the front side of the building, which trapped the smoke inside the building. This smoke not only interfered with the firefighters' operations but also resulted in the flames breaking the common glass windows on the opposite side of the building and spreading to the upper floors by consuming the combustibles of the electrical signage.
 - (3) Firefighting operations were very difficult because inside the building was a maze of small compartments that consisted of non-fireproofed interiors (ceiling, walls, partition walls). There were only a few openings and no smoke exhausting system. This created conditions whereby flames spread quickly and smoke became trapped very easily.
 - (4) There was no sprinkler system installed.

Probable path of the fire spread to the upper floor





