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
		Dec. 7, 1973	Fireproof structure, 4		
Itoya Department Store, Tateyama 1625 Hokujo, Tateyama, CHIBA	Department store (4)	Breakout at 15:30 (approx.) Noticed at 15:43 Notified by emergency call Extinguished by 19:07	structure, 4 stories above ground and 0 below Partially wooden, 2 stories above ground Building area 817.71 m ² Total floor area 2,044.68 m ²	All, Half, Partial, Small 2,044.68 m ² (100 %)	Fatalities 0 Injured 5 (5)

I. Summary of Fire Incident

(1) Summary

This department store fire occurred during business hours. The fire received much public and professional attention because it occurred 1 week later than the historic Taiyo Department Fire, which also occurred during business hours.

(2)	Floo	Total	Damaged	Use (Purpose)	No. of	Fatalities	Fire escape	Firefighting
	r	area	area		persons		equipment	equipment
Conditions per Floor		m ²	m ²				Inside stairs: 2 sets from 1st to 4th floor 1 set from 1st to 2nd floor	Fire extinguishers Indoor fire hydrants
	R	23.76	23.76	Games center			1 slow descending	Automatic fire
	4	217.79	217.79	Retail	14		machine on	detection system
	3	387.34	387.34	Retail	16		4th floor	Guiding lights
	2	598.08	598.08	Retail	18		Metal ladder: on 3rd floor, 2	
	<u>(1)</u>	817.71	817.71	Retail	40		sets on 2nd	
	Total	2,044.68	2,044.68	-	_		11001	
1	/Elgar	Doom Dor	Cambuatibles	Habitable/Non bak	itable	Linknown		

(Floor, Room, Part, Combustibles, Habitable/Non-habitable Rooms, Present/Absent)

The origin of the fire is believed to be near the bathroom on the 1st floor, which was located in the wooden portion of the building.

Unknown

(5) Fire Propagation Path	(Location of Fire Source) Near the bathroom on the 1st floor Windows of the 2nd-floor sales section in the wooden building Unclosed fire shutters between the old and new buildings	Unclosed fire shutters between old and new buildings Sales floors and goods Unclosed fire shutters between old and new buildings Inside stairs with no fire compartment s				
	further. The fire ignited the roof of the bathroom an to the main building.	wooden building and the strong winds facilitated the fire to develop d spread to the window (size of 3.89 m²) of the 2nd floor and then e propagated to the sales floor, igniting the sales goods and then				
	 O Main Reasons for Propagation of the Fire o Because of the bad weather conditions, the inclined hallway on the 1st floor of the wooden building and the stairwells became a wind tunnel and strong winds blew in to facilitate the fire spreading further. o Because of the unclosed fire shutters on the 1st floor, the fire propagated along the ceiling and ignited the sales goods. O Smoke Propagation Path o The smoke propagated through the service lift that was next to the ventilation fan of the bathroom and the stairwell that was not protected by a fire compartment system. 					
II.	II. Summary of the Building					
Construction, Completion, and Major Renovations (Completion) June 1957, (Expansion) June 1960, since then 3 more expansions						
ΙΉ	(2) Vertical Shafts	(3) Fire Prevention				
Fire Prevention Management	Stainwells [X] Duct spaces [] Elevators [] Pipe Shafts [] Escalators [] Other () [] No fire compartments in the vertical shaft (stairwell).	 The store had a fire-prevention manager appointed and had organized an in-house firefighting team according to the fire defense plan. Soon after the Taiyo Department Store Fire, the store owner carried out a fire drill. 				
nent						
	(4) Fire Compartments	(5) Firefighting Equipment				
	Fire shutters between the old and new buildings.	The firefighting equipment was well maintained.				

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. Actions Taken a	ifter the Fire was Detected	III. Actions Taken after the Fire was Detected						
 Detected by How and why Action taken (1st-Floor Supervisor) (Alarm sound coming from the automatic fire detection system) (Looked for location of the fire) 								
O Detected by (1st-Floor Supervisor) O How and why (Alarm sound coming from the automatic fire detection system) O Action taken (Looked for location of the fire) The 1st-Floor Supervisor heard an alarm coming from the local alarm terminal of the automatic fire detection went to look for the location of the fire. He noticed smoke coming out of the left corner of the partition shubuilding, but could not find the origin of the fire. He checked the employee bathroom on the left. As soon the door to the women's bathroom, smoke poured out of the room.								
Emergency Call	Yes [X] (Telephone Operator) Time elapsed since the discovery (1) minute No []							
The telephone operator heard the alarm sound of the automatic fire detection system in her office. As soon as she confirmed white smoke coming out of the service lift of the main building, she made a 119 call.								
Initiated	Successful [] Failed [>	[] [X] [X]	 (Reasons or Conditions) The supervisor who confirmed the fire broke the glass window of the men's bathroom and tried to extinguish the fire with a fire extinguisher, but was unsuccessful. Store clerks used the indoor fire hydrant to extinguish the fire on the 1st floor, but they only extended the hoses from the hydrants on the 2nd to 4th floors. 					
Not Initiated	 Extinguished timing Firefighting difficulties Firefighting method Other	[] [] []						
(Obstacles or Difficulties in Fire Control) o As soon as firefighters arrived, they undertook a search and rescue operation; however, it was a challenge the heavy smoke and flames prevented them from entering the building. o The weather advisory had issued warnings of strong winds, high waves, and dry weather that day.								
	Obstacles or I O Detected by O How and who O Action taker The 1st-Floor So went to look for building, but couthe door to the volume of the t	Obstacles or Difficulties in Fire Control) O How and why O How and why O Action taken O Looked for locate (Look	Detected by How and why Action taken The 1st-Floor Supervisor heard an alarm coming from went to look for the location of the fire. He noticed sm building, but could not find the origin of the fire. He che the door to the women's bathroom, smoke poured out the fire. He ch the door to the women's bathroom, smoke poured out the fire. He ch the door to the door the fire. He ch the fire. He ch the door to the women's bathroom, smoke poured out the fire. He ch the door to the women's bathroom, smoke poured out the fire. He ch the door to the women's bathroom, smoke poured out the fire. He ch the door to the fire. He ch the door to the women's bathroom, smoke poured out the fire. He ch the door the fire. He c					

5	Means of Escape (No. of Persons)	Obstacles to	Obstacles to Evacuation			
(5) Evacuation	 Stairs [X] (40) Elevators/Escalators [] () Escape equipment [X] (3) Directly to ground from windows or ope Rescued [] () Other () [] () 	° Locked e	penings [] mergency doors (Exits) [] stem [] (Poorly controlled, Malfunctioned, led) tage []			
	o The customers learned of the fire by hannouncement made over the PA sys		atic fire detection system and the emergency evacuate.			
	On each floor, the employees assiste entrance and stairs to the back of the		st people were able to evacuate via the main			
	o From the 4th floor, 3 employees (1 male and 2 females) used the fire escape equipment (slow descending dev to reach the ground.					
(6) Causalities	Healthy individuals (Drunk persons) Individuals in need of assistance Infants Elderly Handicapped Patients/ill persons	Obstacles to Evacuation No windows [] Barred openings [] Locked emergency doors (E Alarm system [] (Poorly co Power outage [] Other []	xits) [] ntrolled, Malfunctioned, Not installed)			
	None					
IV	IV. Issues and Lessons Learned					

- 1. Since this fire occurred shortly after the historic Taiyo Department Store Fire, the store management and the fire-prevention manager had just provided fire safety training to the employees in case of emergency. Because of this, as soon as the employees heard the alarm from the automatic fire detection system, they were able to guide the customers in a safe evacuation.
- 2. The firefighting equipment was well maintained and therefore people were able to respond smoothly according to the three principals of detection, communication, and evacuation.



