

## **9<sup>th</sup> Floor**

There was no indication of fire in the available imagery on this floor until late in the day. Shortly before 4:00 p.m., a small area of fire was observed in windows 9-54A and 9-54B on the west side of the north face. There are no images suggesting how fire reached this location. Views of the floor as little as 10 min earlier provided no indication that a fire was present.

Once the fire appeared, it grew rapidly and spread to the east. By around 4:10 p.m., flames had reached at least as far east as window 9-49B; roughly ten minutes later, flames were visible between windows 9-45B and 9-52D. There were indications that the flames on the west side of this group of windows were already beginning to die down. At 4:38:11 p.m., only small spot fires were visible between windows 9-44D and 9-47B.

Limited smoke and flames exited through open windows on the north face, suggesting the fires vented elsewhere from the building.

NIST found no evidence regarding fire behavior after 4:40 p.m. It is possible that the fires continued to spread eastward and moved onto the east face.

## **10<sup>th</sup> Floor**

No fires were observed burning on this floor.

## **11<sup>th</sup> Floor**

A fire was first observed on this floor at 2:08 p.m. on the east face. Windows 11-29 and 11-30 near the southeast corner were open. The appearance of the smoke patterns above these windows suggested that these flames had burned intensely prior to this time. Over the next 20 min, the fire spread slowly northward along the east face, breaking out window glass and burning intensely at windows 11-31 to 11-35.

It was longer than two hours before burning was observed at another location on this floor. Images taken around 4:38 p.m. revealed intense burning in windows 11-44E to 11-46D, just east of the center of the north face. There had been no indication of burning along the entire north side of this floor in imagery taken around 4:00 p.m., or even in the same area where the fire first reappeared as late as 15 min earlier. Shortly after the flames first appeared on the north face, a photograph showed intense burning in windows 11-45C to 11-48A. By around 4:52 p.m., the flames in the area had apparently died down, and flames on this floor were not observed again until around 5:10 p.m.

Burning was observed localized around Column 11-49 at 5:09 p.m. Ten minutes later the fire had spread to the west and was visible between Columns 49 and 51. When the building fell, around 5:21 p.m., fire was visible as far west as Column 52.

NIST found no evidence regarding the pathway that the fire took to reach the north face, nor when the flames first arrived on this face.