Woodford Castle Fire
Heat and Flame Vector Analysis

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I. General
Event: Fire
Location: Woodford County, KY
Time: 8:30 p.m.
Date: May 10, 2004
Weather: Fair
Wind: from the SW

General Information
Construction: Mixed
Masonry and Stone
Wood Frame
Structural Steel
Under Construction
Occupancy: Residential
Unoccupied at the time of the fire
Woodford Castle Fire

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Photograph 1: This is a scanned photograph that was taken after the Fire Department arrived. The photograph was taken inside the Pisgah Road Auxiliary gate (west side) inside of the Perimeter Wall looking east. The photograph shows the Library Turret in front of and slightly to the left of the fire fighters has partially collapsed. The glow, debris on the ground and the front entrance to the Library has been added to the photograph to point to the referenced areas.
Photograph 1: This photograph is taken from the west side of the structure looking into the garage. Based on the condition of the structural collapse, the fire moved from the door on the right side of the concrete wall, Library, through the west and north.

Photograph 2: This photograph is taken from the west side of the structure looking into the garage. Based on the condition of the structural collapse, the fire moved from the door on the right side of the concrete wall, Library, through the west and north.

Vector indicating fire movement.

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Photograph 3: This is a scanned photograph, one of the seven photographs that were utilized early in the investigation to assist in describing the movement of fire in the downward-hall structure. The arrows placed on the photographs should serve as a reference. This photograph was taken looking at the southeastern (front) side of the residence. In the photograph, the Library Turret has collapsed. The arrows on the Library Turret are placed appropriately for fire movement. The fire in the Garage, as shown to the left of the Library Turret, and the Garage Turret, as shown in the right side of the photograph, shows fire movement. The Library Turret is indicated by the position on the left side of the Library Turret. The fire in the Garage Turret is indicated by the position on the right side of the Garage Turret. The fire in the Library Turret is indicated by the position on the right side of the Library Turret. The fire in the Garage Turret is indicated by the position on the right side of the Garage Turret.
Photograph 1
This photograph is looking west from inside of the residence. The Library turret would have been located to the left of the doorway on the
concrete wall. The concrete wall separates the Library, Dining Room and Kitchen from the garage. The red arrow indicates the direction of fire
movement.

Photograph 5
Same wall as Photograph 3, looking more to the right. The Kitchen turret is located at the right side of the photograph. The red arrow
indicates the direction of fire movement.

Photograph 6:
Photograph 6 is looking from the entrance towards
the kitchen turret (south to north). This photograph was
taken during Ron Hopkins' first visit to the fire scene as
an observer after being contacted via cell phone. The
after fire condition of the kitchen turret supports the fire
spread theory from south to north in this area.

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Photograph 3: This is a scanned photography, one of the seven photographs that were utilized early in the investigation to assist in describing the movement of smoke. With some of the structures landmarks had been identified, the movement of the smoke could be seen in relation to the photograph taken looking at the southwestern side of the residence. In the photograph the Library turret has collapsed. The photograph of the Library turret was taken automatically from the street on the right side of the Garage, in front and to the left of the Fire fighters and the Front Garage turret is in view. The photograph of the Library turret is indicated in the photograph to the left of the Fire fighters. In the right hand portion of the photograph is the Library turret which is indicated in the photograph by the arrow pointing to the turret that indicated fire in the Library. The photograph taken looking from the southeast corner of the structure at the front. Photograph was taken the morning after the fire.
Castle Fire Additional Information

Fire Reported at 8:30 PM, May 10, 2004.
Photograph #7 Taylor Photograph 5/10/04 7:58 PM

Photograph #7a Close up of the turret taken from Photograph #7 showing smoke slightly behind turret.

Light Smoke

Photograph #8 Taylor Photograph taken early in the fire showing fire in the main hall, smoke and fire from the Library turret and an smoke showing on the right side of the photograph. Ballroom Area.

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Photograph 8a: This is a close-up of the Library Turret showing the glow from a lower window in the Library Area (southwest corner). The presence of heat and smoke indicates that there is fire at this location early in the overall incident.

Library Turret
Outer Perimeter Wall
Red Glow from Library Window

First Floor
- The "Woodford Castle"
- Not to Exact Scale

Vector indicating fire movement

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Questions?