DATE ISSUED:	March 30, 2005	REPORT NO. 05-078
ATTENTION:	Land Use and Housing Committee Docket of April 6, 2005	
SUBJECT:	Proposed Regulatory Revisions to the Building Code Resulting from the Cedar Fires	

SUMMARY

 $\underline{Issue(s)}$

Should the City Council modify the Municipal Code to require additional fire resistant building materials, and fire and life-safety systems, for buildings and structures located within proximity of Hazardous Areas of Native or Naturalized Vegetation?

Manager's Recommendation(s)

Add a new Division 5 to Chapter 14 Article 5 of the Municipal Code to require additional fire resistant building materials and fire safety systems for buildings subjected to fire hazards from Hazardous Areas of Native or Naturalized Vegetation.

Other Recommendations

The Board of Building Appeals and Advisors: The Board of Building Appeals and Advisors approved the proposed code change package as submitted at their March 10, 2005 meeting and recommended that the Land Use and Housing Committee adopt the proposed amendments to the Building Regulations in the San Diego Municipal Code as proposed.

Technical Advisory Committee (TAC) of LU & H: TAC approved the proposed code change package as submitted at their March 9, 2005 meeting.

Fiscal Impact:

Administration of the Building and Fire Codes is based upon a fee for service paid for by applicants in the development process.

Housing Affordability Impact:

The proposed requirements will minimally impact the cost of housing since most of the required construction features are currently implemented as a part of current practice.

BACKGROUND

On Monday January 20, 2004 the City Council heard a list of thirteen proposed revisions to the Building and Fire Regulations resulting from the Cedar Fire.

- The City Council approved the two roofing assembly items banning the use of wood shakes and shingles and requiring a Class A roofing assembly for all new roofs Citywide.
- The City Council returned the remaining eleven items for further study. The City Council also directed staff to seek input from affected parties and other stakeholders. The items were as follows:
 - a) The sprinkler system requirement for buildings within the scope of the regulations (these included single family dwelling projects);
 - b) Non-combustible roof coverings;
 - c) Exterior wall protection and prohibition of combustible exterior wall finishes;
 - d) Exterior glazed opening protection;
 - e) Boxed eave protection;
 - f) Ventilation opening protection and orientation limitation;
 - g) Spark arrestors on chimneys;
 - h) Skylight glazing to be non-combustible dual glazed glass;
 - i) Roof gutters and downspouts to be non-combustible;
 - j) Accessory structures such as fences, decks, play structures, etc., to be noncombustible or 1 hour rated; and
 - k) Garage doors to be non-combustible.

The current proposal has been developed through an extensive outreach effort that involved key stakeholders including the Building Industry Association, the San Diego Chapter of the American Institute of Architects, a task group of the Technical Advisory Committee, the City Sustainable Energy Advisory Board, the San Diego Roofing Contractors Association as well as participation in the San Diego Regional Fire Prevention Emergency Preparedness Task Force -Fire/Building Code Sub Committee. A list of organizations contacted based on a wide outreach effort as well as letters of support are contained in Attachment 1.

The proposed changes are necessitated due to San Diego's topography, limited rainfall, exposure to Santa Ana conditions, and vegetation of San Diego which combine to create an area with a high risk from wild fires. They are also based on an extensive review and evaluation of the following codes, methods and data:

- a) A review of nationally recognized codes such as the 2003 International Urban-Wildland Interface Code;
- b) A review of regulations from other California jurisdictions such as the County of San Diego, City of Burbank, City of San Bernadino, etc.;
- c) Use of fire science and engineering judgment to calibrate the proposed regulations to issues unique to the topography, vegetation and size of the City of San Diego;
- d) A review of damage assessments collected by the Fire-Rescue Department;
- e) Reports and findings published on past wildland fires; and
- f) Lessons learned from the Cedar Fire and recommendations of the Fire Chief.

DISCUSSION

A new Division 5 is being proposed in Chapter 14 Article 5 of the Municipal Code. The requirements in Division 5 are intended to supplement the fire and life-safety protections required in the adopted building code.

The proposed fire resistant building materials and fire safety systems are intended to reduce the impact of combustible construction materials on the exterior portions of buildings, and to minimize the intrusion of embers into the building through exterior openings and attic ventilation openings.

The proposed regulations are designed for the unique exposures to buildings located immediately adjacent to the brush management zones, and to all new construction within 300 feet, in any direction, of the boundary between brush management zones 1 and 2 and include the following specific elements:

- a) Protection of the plywood roof sheathing from ember intrusion under tile roofing and at the edges of roofs;
- b) Protected exterior wall construction and special protection for walls with combustible exterior wall coverings;
- c) Glazed doors and windows with dual pane glazing;
- d) Eaves to be protected with fire resistant materials or heavy timber construction;
- e) Exterior ventilation opening protection (limitation on eave ventilation location and size, and limitations on the size and orientation of attic ventilation openings);

- f) Spark arrestors on all chimneys and flues;
- g) Skylights glazed with dual pane glass;
- h) Non-combustible gutters and downspouts; and
- i) Non-combustible or heavy wood garage doors.

The proposed standards are intended to function in conjunction with the separate brush management requirements in the landscape regulations of Chapter 14 in the Municipal Code.

The report presented to the Board of Building Appeals and Advisors is provided as Attachment # 2.

ALTERNATIVE

Do not adopt fire resistant construction adjacent to High Fire Hazard Areas and make no changes to the City Code requirements for construction within proximity of Hazardous Areas of Native or Naturalized Vegetation.

Respectfully submitted,

Gary Halbert Development Services Director Approved: Patricia T. Frazier Deputy City Manager

FRAZIER/AMF

ATTACHMENT(S):

- <u>1.</u> Outreach list and letters of support.
- 2. Code Change Report, Board of Building Appeals and Advisors
- 3. <u>Proposed Code changes.</u>