

ENGINEERING SERVICES  
CODES COMMITTEE  
REVIEW SUMMARY

REFERENCES:

NFPA 101 – Life Safety Code (2006 Edition)  
NFPA 13, Standard for the Installation of Sprinkler Systems  
NFPA 13D, Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes  
NFPA 13R, Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height  
IHS Architect/Engineer (A/E) Design Guide, March 2005  
Request for Fire Flow-Storage Decision (E-mail dated June 12,2006, from Michael Weaver to DES Code Committee)

ISSUE:

There are differences of opinion as to which standard IHS facilities should utilize when determining fire flow for facility protection. What criteria are appropriate for determining required fire protection flows for IHS facilities (including staff quarters)?

BACKGROUND:

Currently, the Department of Health and Human Services, Indian Health Service, Division of Engineering Services Architect/Engineer (A/E) Design Guide (March 2005 -page 8: General Design Requirements, Item C- Codes, Standards and Guidelines, Item #2a) states:

"The design shall conform to the latest published edition of the nationally recognized codes, standards and guidelines"

- a. National Fire Codes (with the exception of NFPA 5000) as published by the National Fire Protection Association (NFPA). Emphasis is placed upon compliance with NFPA 101 Life Safety Code."

NFPA-101 (paragraph 9.7) states the fire protection system shall be in accordance with NFPA 13, NFPA 13D or NFPA 13R where required by any section of the code.

NFPA 13 – 2002 (Chapter 11) provides all necessary design approaches and appropriate fire flow calculations based on the building's hazard classification.

NFPA 13D and NFPA 13R provide design and water supply requirements for one- and two-family dwellings, and other residential occupancies.

DISCUSSION / RECOMMENDATION:

It was agreed to reaffirm the current A/E Design Guide directive to utilize NFPA 101 requirements in determining required fire protection flows for IHS facilities (including staff quarters). Determination of fire flow requirements for all facilities should be made as directed by NFPA 101, using the appropriate installation standard - NFPA 13, NFPA 13D or NFPA 13R – as required.

SIGNATURES:

- |  |  |               |  |
|--|--|---------------|--|
| <input checked="" type="checkbox"/> Concur | <input type="checkbox"/> Do Not Concur | DATE: 6-19-06 | NAME: /Dwight Packer/<br>Dwight Packer, R.A.,<br>KS #3507                |
| <input checked="" type="checkbox"/> Concur | <input type="checkbox"/> Do Not Concur | DATE: 6-19-06 | NAME: /Jacqueline M. Parker/<br>Jacqueline M. Parker, P.E.,<br>TX #77157 |
| <input checked="" type="checkbox"/> Concur | <input type="checkbox"/> Do Not Concur | DATE: 6-16-06 | NAME: /Hank L. Payne/<br>Hank Payne, P.E.<br>WA #20802                   |
| <input checked="" type="checkbox"/> Concur | <input type="checkbox"/> Do Not Concur | DATE: 6-16-06 | NAME: /Pedro Valverde/<br>Pedro Valverde, P.E.,<br>WA #37961             |
| <input checked="" type="checkbox"/> Concur | <input type="checkbox"/> Do Not Concur | DATE: 6-19-06 | NAME: /Suresh Shah/<br>Suresh Shah, P.E., Chairperson<br>OK #13259       |