INTRODUCTION

Changes that have been made to FOG5, dated October 2006 are listed below in tabular form.

Page No.	Change Description
1st pg	6th Edition, February 2009
Table of Contents	1 line at bottom now is "Design Loads & Quick Weight Estimating"
1-1	Added bullet & changed reference to page 1-30
1-12	Corrected spelling to "CONDITIONS" at bottom of graphic (2nd printing)
1-22	Changed text to provide alternatives to spray paint, and add reference to using peel and stick labels or stiff paper placards, Also add comment regarding the coordination of markings with others
1-23	Change explanation of Open Box to: "Low Risk for US&R Operations, with low probability of further collapse. Victims could be trapped by contents, or building could be completely pancaked or soft 1st story"
1-23	Change explanation of Box with single diagonal line to: "Moderate Risk for US&R Ops, and structure is significantly damaged. May need shoring, bracing, removal, and/or monitoring of hazards. The structure may be partly collapsed."
1-23	Change explanation of Box with crossed diagonal lines to: "High Risk for US&R Ops, and may be subject to sudden collapse. Remote search operations may proceed at significant risk. If rescue operations are undertaken, significant and time-consuming mitigation should be done."
1-24	Add reference to peel and stick labels or stiff paper placards. Removed some text that was repetitious with page 1-22
1-29	Added symbols for Horizontal & Window Shores (2nd printing)
1-30	At ends of first three lines under title: added weight per cubic inch for Concrete = .089 pci, for Steel = .28 pci, for Aluminum = .095 pci
1-30	Added "QUICK WEIGHT ESTIMATING (per square foot) at bottom of sheet 12" Concrete slab = 150 psf — 1" Steel plate = 40 psf 10" = 125 psf — 3/4" = 30 psf 9" = 113 psf — 5/8 = 25 psf 8" = 100 psf — 1/2" = 20 psf 7" = 88 psf — 3/8" = 15 psf 6" = 75 psf — 1/4" = 10 psf 4" = 50 psf — 1/8" = 5 psf

Page No.	Change Description
2-11	Note 4. Change to: "Prefabricate header to posts by first toe-nailing posts to header, then placing the 12"x 24", double- gusset plate on one side, then flip over and place another dbl- gusset on other side."
2-15	Note 5b. Change to: "Toe-nail each post to header and sole, and keep the posts in line & plumb with header and sole plate."
2-24	Omit information for Type 1 Sloped Floor Shores and replace with new graphic and Step 1 of how to construct Type 2 Sloped Floor Shores. Graphic has note in Bottom Cleat Box added to say "wedges optional" from 2nd printing. Also add note to title: "Type 1 is not recommended"
2-25	Omit Steps 2 through 9 for Type 1 Sloped Fl Shores and replace with 2 through for Type 2 Sloped Fl Shores. Note 4. Add "Posts can usually be driven tight without wedges" (2nd printing)
2-26	Info on Type 2 Sloped Fl Shores was moved to 2-24. Add new graphic for Type 3 Sloped Fl Shores, plus Step 1 for How to Construct
2-27	Steps 2 through 9 for Type 2 Sloped Fl Shores was moved to 2-25. Add Steps 2 through 9 for Type 3 Sloped Fl Shores
2-28	Graphic SHOR-8 has been replaced by new graphic that shows two types of bracing between Sloped Floor Shores, for 5'-0" o.c. maximum. Also added notes below
2-29	Steps 2 through 9 for Type 3 Sloped Fl Shores was moved to 2-27. This was replaced by new graphic that shows bracing between Sloped Floor Shores, for 8'-0" o.c. max. Also added notes below
2-30	The Cleat at the upper right-hand corner of the Window Shore has been rotated into a more vertical orientation (better clearance). Also the 5-16d at each end of the 2x4 diagonal braces were changed to 3-16d. Added note that cleats at wedges should be 14" min long
3-8	Change graphic to show level mid brace (not sloped) and show Trough Base on Raker with U-channel Base as alternate and 2nd Choice. Change note on graphic near top of Raker from: "TWO PLYWOOD GUSSET PLATES" to "PLYWOOD GUSSET E.S. =(each side)
3-10	Change note near top and bottom of Raker from: "2-PLYWOOD GUSSETS" to "PLYWOOD GUSSET E.S".
3-15	Change graphic to add connection info for backing, and change base of Split Sole Raker to a Trough
3-16	Change graphic to show Trough Base on Raker with U-channel as 2nd Choice. Correct error in Top Cleat Nailing, "24" long, 14-16d" instead of 17-16d (2nd printing)
3-19	Graphic SHOR-15 8: Trough Detail, omit the 2-16d each sidefrom vertical 2x5 to 2x4x18" (omit splitting potential)
3-21	Omit "ENGINEERED LEDGER" attached to wall at top of wall plate
3-25	Change note near bottom to say "or TROUGH BASE & SOLE ANCHOR (Preferred)
4-1	No changes have been made to Section 4 of FOG

Page No.	Change Description
5-1	The first bullet line "Global Positioning System (GPS V)" has been eliminated. A sixth bullet line was added "Electronic Metal Locator (Zircon MT 6)" A seventh bullet line was added "Digital Electronic Levels (SmartLevel and SmartTool)"
5-2	Info on GPS V has been replaced with lines for notes
5-3 to 13	Info on use of GPS 60CSx has been moved forward to these pages.
5-14	This page now has lines for notes.
5-15 to 22	Info on Garmin Mapsource Software has been moved up to these pages
5-23 to 37	Info on Total Station (Nikon NPL 352) has been moved up to these pages
5-38 to 43	Info on Wireless Building Monitoring System (WBMS) has been moved up to these pages
5-44 to 47	Info on Laser Range Meter (Hilti PD32) has been moved up to these pages, and info has been added regarding use of indirect measurements and other measuring keys
5-48 to 50	Info on Electronic Metal Locator (Zircon MT 6) has been added
5-51 to 52	Info on Digital Electronic Level (SmartLevel & SmartTool) has been added
6-1	First bullet line has been changes from "Triage Procedures and Sample Forms" to "Rapid Recon and Search"
6-1	The five bullets under Typical First Day's Deployment are now as follows: • Rapid Recon, I.D. and Classification of Structures • Search – Detection and Location • Structure Hazard Evaluation and Marking • Search and Victim Marking • Develop Structure Hazard Mitigation List and Priorities Also the graphic has some changed terminology
6-2 to 5	These pages have been re-written to explain the Rapid Recon Process
6-6	Now shows the Rapid Recon Form in small size
6-7	Change 5th line under STRUCTURAL CALCULATIONS to read "***One may increase these values by 25% for US&R Shores***
6-8 to 15	Revised the Structural Calculations and added new titles. There is one fewer page, since calculation shoeing the use of cribbing to reduce punching shear was eliminated. (cribbing deflects too much to be effective for this application)
6-16 to 17	ICS & INSARAG MAP SYMBOLS have been moved forward by one sheet
6-18	FEMA US&R SHORING SYMBOLS are shown on page 1-29, so they have been eliminated here
6-18 to 19	OTHER STANDARD DRAWING SYMBOLS have been moved up one page
6-20 to 26	CRITICAL INCIDENT STRESS has been re-formatted and now ends on page 6-26 instead of 6-31
6-27 to 34	Pages showing ROPES, KNOTS & HARNESSES have been mover forward forward by 5 pages
6-35	DESIGN LOAD OF PICKETS IN SOILS replaces Rope Anchors Using Pickets
6-36	ROPE ANCHORS USING PICKETS shows grapic previously on 6-41
6-37	Shows new graphic of Crane Signals
6-38	New information on CRANE HAND and VOICE SIGNALS
6-39 to 40	Shows EXCAVATOR HAND SIGNALS, previously on pages 6-43 & 44

Page No.	Change Description
7-2	Wind table has been changed to show 5.0 psf as the minimum. Also and added comment in note 2. indicates that 10psf is recommended design value, but 5psf may be used when appropriate – like for checking walls for moderate winds
7-3	Three lines under WORKING LOAD STRESSES have been changed/added to clarify the recommended stress increases "One may increase these values by 25% for US&R Shores" (On page 7-12 note that a 60% increase is recommended when using nails that resist transient loads – Raker Shores) Added note at bottom of sheet "**Note that Working Load stresses for Hem-Fir Group are 15% less, and Spruce-Pine-Fir Species are 25% less than those listed above"**
7-5	New chart for Allowable Uniformly Loaded Plywood Floors
7-6	New chart and notes for Plywood Floors Supporting Fork-Lift Trafic
7-12	Revise table for Wire Nails plus notes regarding use of 60% increase Add note to refer to Pg 7-3 for reductions for other species
7-23	Minor changes in text "Wire rope slings should be stored where they are protected from moisture, and properly coiled when not in use."
7-32	Remove notes at bottom of page regarding increase in values for Wind & Quake. There should be no increase
7-33	Change Design Load for ¼" screws to 175 Tension & 350 Shear
7-34	Add note at page bottom "Note: All construction adhesives have a useful (shelf) life of about one year"
Sect 8	No changes
9-11	Change Triage Form reference to Ricon 1 & 2 Change Monitor Forms reference to new landscape forms and 1 portrait form Change explanation of Monitor Forms near sheet bottom
9-12 to 9-25	Update all StS Forms