Guidelines and Specifications for Flood Hazard Mapping Partners

		Source
INTRODUCTION		
INT.1	**Purpose and Scope of Document**	FMPCC G&S Introduction
INT.2	**Organization of Document**	
INT.3	**General Performance Requirements**	FMPCC G&S Introduction
INT.4	**Document Control and Maintenance Plan**	
INT.5	**Overview of Flood Hazard Mapping Program**	*A Cost-Effective Plan for Flood Studies Maintenance* and *Modernizing FEMA's Flood Hazard Mapping Program: A Progress Report*
INT.6	**Overview of Flood Hazard Mapping Products**	FMPCC G&S and *A Cost-Effective Plan for Flood Studies Maintenance*
INT.7	**Overview of Flood Hazard Mapping Processes**	*A Cost-Effective Plan for Flood Studies Maintenance*
INT.8	**Overview of Mapping Formats**	*A Cost-Effective Plan for Flood Studies Maintenance* and FMPCC G&S
INT.9	**Overview of Mapping Partners**	*Modernizing FEMA's Flood Hazard Mapping Program: A Progress Report*
INT.10	**Guidelines for Mapping Partners in Perspective**	
VOLUME 1 FLOOD STUDIES AND MAPPING		
1.1	**Overview of the Flood Map Project Process**	
1.2	**Mapping Needs Assessment**	
1.3	**Project Scoping**	Scoping Manual Jan 2001, FEMA 37 Project scoping plus new material
1.4	**Data Development/Report and Map Production**	FEMA 37, FMPCC G&S, and current Optimized Study Process practice
1.5	**Preliminary/Post-Preliminary Processing**	Portions from FEMA 37 and FMPCCG&S
1.6	**References**	
VOLUME 2 MAP REVISIONS AND AMENDMENTS		
2.1	**Physical Map Revisions**	FMPCC G&S
2.2	**Coastal Barrier Resources System Revisions**	FMPCC G&S
2.3	**Notice-to-User Revisions**	Formally documented for inclusion into these G&S
2.4	**Letter of Map Change Processing**	FMPCC G&S and Procedure Memo 22
2.5	**Revalidation Letters**	FMPCC G&S
2.6	**Corporate Limit Changes**	FMPCC G&S
2.7	**Program Implementation**	FMPCC G&S
2.8	**Fee-Collection System Responsibilities**	FMPCC G&S
2.9	**Special Conversions**	FMPCC G&S
2.10	**References**	
VOLUME 3 PROGRAM SUPPORT		
3.1	**Introduction**	
3.2	**Program Coordination and Reporting**	Portion from FMPCC G&S
3.3	**Library and Archive Support**	Portion from FMPCC G&S
3.4	**Procedure, Guidance, and Policy Development and Implementation Assistance**	Portion from FMPCC G&S

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		Source
3.5	Technical Assistance	Portion from FMPCC G&S
3.6	Map Assistance Center Support	Portion from FMPCC G&S
3.7	Flood Hazard Mapping Web Site Support Activities	FHM Website Protocols
3.8	Mapping Needs Assessment Process Support	NFIRA, Section 575
3.9	Special Correspondence	Portion from FMPCC G&S
3.10	Letters of Determination Review	Portion from FMPCC G&S
3.11	Engineering Study Data Package Facility Support	Portion from FMPCC G&S
3.12	Map Service Center Support	Portion from FMPCC G&S
3.13	Training Support	
3.14	Post-Flood Hazard Verification/Recovery Tools	
3.15	Hazard Identification and Mapping Activities	Portion from FMPCC G&S
3.16	Risk Assessment Activities	Portion from FMPCC G&S
3.17	Fee-Charge System Maintenance Activities	Fee Charge System Procedures s for Part 72 and Fee Charge Systems Procedures for External Data Requests
3.18	Cooperating Technical Partners Program Support Activities	
3.19	Support for Other Map Modernization Objectives	*Modernizing FEMA's Flood Hazard Mapping Program, A Progress Report*
3.20	Q3 Flood Data Maintenance Activities	Portion from FMPCC G&S
3.21	Conversion/Compliance Process Support	FEMA *Document Control Procedures Manual*
3.22	Other Program Support	
3.23	References	

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APPENDIX A GUIDANCE FOR TOPOGRAPHIC DATA DEVELOPMENT

A.1	Introduction	FEMA 37, Appendix 4A. Aerial Mapping and Surveying Spec's and 4B
A.2	Industry Geospatial Standards	NSSDA (FGDC 195f) and NGS-5f (NOAA, 1997)
A.3	Accuracy Guidelines	FEMA 37 Appx 4 updated to NSSDA
A.4	Data Requirements	FEMA 37 rewritten to NDEP recommendations
A.5	Ground Control	FEMA 37 rewritten FGDC network accuretly
A.6	Ground Surveys	FEMA 37 rewritten to NGS-58
A.7	Photogrammetric Surveys	FEMA 37 Appx 4
A.8	Airborne Light Detection and Ranging (LIDAR) Surveys	FEMA 37 Appx 4B rewritten to NDEP recommedations
A.9	References	Updated from FEMA 37

APPENDIX B CONVERTING TO THE NORTH AMERICAN VERTICAL DATUM OF 1988

B.1	Vertical Datums	FEMA 37; FMPCC G&S App. D with updated information
B.2	Data Collection	"
B.3	Conversion Criteria	"
B.4	Conversion of Unrevised Flood Elevations	"
B.5	Conversion From NAVD88 to NGVD29	"
B.6	Flood Insurance Study ReportParagraphs	"

		Source
APPENDIX C	**GUIDANCE FOR RIVERINE FLOODING ANALYSES**	
C.1	**Detailed Hydrologic Analysis**	FEMA 37, current policies and practices
C.2	**Hydrologic Review**	White Paper on Hydrology Review
C.3	**Detailed Hydraulic Analyses**	FEMA 37, current policies and practices
C.4	**Approximate Analyses**	FEMA 37, FEMA 265, NC CTP Issue Paper #11 (*Hydraulic Analyses of Structures in Zone A Areas*)
C.5	**Hydraulic Review**	White Paper on Hydraulic Review
C.6	**Floodplain Mapping**	FEMA 37, FMPCC G&S, and current practice
C.7	**Hydrologic and Hydraulic Analyses of Lake Levels for Closed Basins**	Current policies and practices
C.8	**Future-Conditions Flood Mapping**	Current policies and practices
C.8	**References**	
APPENDIX D	**GUIDANCE FOR COASTAL FLOODING ANALYSES AND MAPPING**	
D.1	**General Guidance**	FEMA 37 - Appendix 1
D.2	**Wave Elevation Determination and V Zone Mapping: Gulf of Mexico and Atlantic Ocean**	Guidelines and Specifications for Wave Elevation Determination and V-Zone Mapping (Final Draft March 1995)
D.3	**Wave Elevation Determination and V Zone Mapping: Great Lakes**	Guidelines and Specifications for Wave Elevation Determination and V-Zone Mapping - Great Lakes (Draft August 1996)
D.4	**Wave Elevation Determination and V Zone Mapping: Pacific Ocean**	
D.5	**Erosion Hazard Study, Identification, and Mapping**	
D.6	**References**	
APPENDIX E	**GUIDANCE FOR SHALLOW FLOODING ANALYSES AND MAPPING**	
E.1	**What Is Shallow Flooding?**	FEMA 37
E.2	**Study Scope**	"
E.3	**Applicable Flood Insurance Risk Zones**	"
E.4	**Shallow Flooding Classifications and Descriptions**	"
E.5	**Study Procedures**	"
APPENDIX F	**GUIDANCE FOR ICE-JAM ANALYSES AND MAPPING**	
F.1	**Introduction**	FMPCC G&S and FEMA 37
F.2	**Ice Jam Types**	"
F.3	**Reconnaissance**	"
F.4	**Analysis Approaches**	"
F.5	**Presentation of Results**	"
F.6	**References**	"
APPENDIX G	**GUIDANCE FOR ALLUVIAL FAN FLOODING ANALYSES AND MAPPING**	
G.1	**Introduction**	NRC 1996 Report on Alluvial Fan Flooding, Alluvial Fan Guidelines

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		Source
G.2	Analysis Approach	"
G.3	Additional Information on Sediment Transport	"
G.4	References	"

APPENDIX H GUIDANCE FOR MAPPING OF AREAS PROTECTED BY LEVEE SYSTEMS

H.1	Levee System Component Terminology	
H.2	Levee System Evaluation Criteria	"
H.3	Crediting Criteria for Flood Maps	"
H.4	Review Responsibilities	FMCCC G&S
H.5	Floodplain Mapping and Flood Profiles	FEMA 37; Section 65.10 of NFIP Regulations
H.6	Flood Control Restoration Zones	Current policies and practices

APPENDIX I SCOPING GUIDANCE AND TOOLS

I.1	Pre-Scoping Meeting Activities	Scoping Manual Jan 2001
I.2	Scoping Meeting Activities	Scoping Manual Jan 2001
I.3	Post-Scoping Meeting Activities	Scoping Manual Jan 2001

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APPENDIX J FORMAT AND SPECIFICATIONS FOR FLOOD INSURANCE STUDY REPORTS

J.1	Submittal Content for Flood Insurance Study Reports	FEMA 37 and FMPCC G&S
J.2	Preparation of Flood Insurance Study Reports	"
J.3	Volume Printing	"
J.4	Future-Conditions Flood Hazard Information	Current policies and practices
J.5	Preliminary and Final Deliverables	Current policies and practices
J.6	Sample Flood Insurance Study Report	FEMA 37 and FMPCC G&S
J.7	Figures	Current policies and practices

APPENDIX K SPECIFICATIONS AND FORMAT FOR FLOOD INSURANCE RATE MAPS

K.1	Mapping Production Methods and Formats	FMPCC G&S ; FMPCC G&S and/or Procedure Memos 3, 4, 11, 14, 15 & 22
K.2	Map Frames	"
K.3	Map Index	"
K.4	Map Body	"
K.5	Map Legend	"
K.6	Map Title Block	"
K.7	Map Locator Diagram	
K.8	Notes to Users	"
K.9	Preliminary Flood Insurance Rate Map Deliverables	"
K.10	Deliverables to Map Service Center	"

		Source
APPENDIX L	**GUIDANCE FOR PREPARING DIGITAL FIRM DATABASE**	
L.1	**Digital Flood Insurance Rate Map Database Overview**	Map Modernization DFIRM Database Work Group, Draft DFIRM Specifications, FEMA 37 Appendix 7
L.2	**Preparation of Draft Digital Data**	"
L.3	**Preparation of Preliminary and Final Digital Flood Insurance Rate Map Databases**	"
L.4	**Database Table Structure Requirements for Draft Digital Data**	"
L.5	**Federal Emergency Management Agency Digital Mapping Information Checklist**	"
L.6	**Metadata Example for Draft Digital Data**	"
L.7	**Database Table Structure Requirements for Preliminary and Final Digital Flood Insurance Rate Map Databases**	"
L.8	**Metadata Example for Preliminary and Final Digital Flood Insurance Rate Map Databases**	"
APPENDIX M	**GUIDANCE FOR PREPARING AND MAINTAINING TECHNICAL AND ADMINISTRATIVE SUPPORT DATA**	
M.1	**Background**	FEMA 37, FMPCCG&S, *Guide for Preparing Technical Support Data Notebook*
M.2	**Preparation and Submittal Requirements**	"
M.3	**Processing and Maintenance Requirements**	"
GLOSSARY OF TERMS		

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