

HAZARD MITIGATION FLOODPLAIN MANAGEMENT PLAN

2013 - 2017

DRAFT



DEVELOPED BY THE

BILOXI HAZARD MITIGATION COMMITTEE

IN ASSOCIATION WITH

NEEL-SCHAFER, INC AND
WITT GROUP HOLDINGS, LLC

1	Introduction	
1.1	Hazard Mitigation Planning	2
1.2	Purpose	3
1.3	Priorities	4
1.4	Authority and Adoption	4
1.5	Summary of Contents	5
2	Planning Process	
2.1	Planning Team and Committees	7
2.2	Plan Development Meetings	9
2.3	Public Involvement	13
2.4	Coordination with Other Agencies	19
2.5	Summary of Changes	20
3	Community Profile	
3.1	Climate	24
3.2	Population	24
3.3	Land Use	26
3.4	Housing	27
3.5	Economic Data	28
3.6	Transportation	29
4	Hazard Identification and Risk Assessment	
4.1	Risk Assessment	33
4.2	Identifying and Profiling Hazards	34
4.2.1	Coastal Storms (Hurricanes, Tropical Storms)	36
4.2.2	Flood	41
4.2.3	Severe Thunderstorm/High Wind/Lightning	47
4.2.4	Storm Surge	52
4.2.5	Tornado	53
4.2.6	Wildfire	59
4.2.7	Coastal Erosion	63

Table of Contents

4.2.8	Drought	64
4.2.9	Earthquake	69
4.2.10	Fog	71
4.2.11	Hail	72
4.2.12	Heat Wave	73
4.2.13	Landslide/Sinkholes	74
4.2.14	Salt Water Intrusion	75
4.2.15	Sea Level Rise	75
4.2.16	Tsunamis	78
4.2.17	Winter Storms/Freezes	79
4.2.18	Hazardous Materials (Transportation)	81
4.2.19	Pandemic	82
4.2.20	Terrorism	84
4.2.21	Exotic Species	85
4.3	Vulnerability Assessment	87
4.3.1	Overview of Vulnerability Assessment	87
4.3.2	Identifying Structures	89
4.4	Estimating Potential Losses	92
4.4.1	Coastal Storms (Hurricanes, Tropical Storms)	92
4.4.2	Storm Surge	95
4.4.3	Flood	102
4.4.4	Tornado	105
4.4.5	Wildfire	107
4.5	Analyzing Development Trends	110
4.5.1	General Development Trends	110
4.5.2	Land Available for Development	111
4.5.3	Population Growth	114
4.5.4	Housing	115
4.5.5	Development Priorities	115

5	Community Capability Assessment	
5.1	Preparedness of State and Local Agencies	117
5.2	Planning and Regulatory Capability	138
5.3	Other Plans and Programs	150
5.4	Warning Systems, Public Outreach and Information Systems	153
6	Mitigation Strategy	
6.1	Priorities and Progress Made Since 2007 Plan	155
6.2	National Flood Insurance Program Compliance	159
6.3	Mitigation Goals and Objectives for Natural and Man-made/Health-Related Hazards ..	161
6.4	Identification and Analysis of Mitigation Actions	163
6.5	Implementation of Mitigation Actions	179
6.6	Grant Sources	180
7	Plan Maintenance	
7.1	Monitoring, Evaluating and Updating the Plan	185
7.2	Incorporation into Existing Planning Mechanisms	188
7.3	Continued Public Involvement	189
8	Appendices	
8.1-A	Local Mitigation Plan Review Tool	
8.1-B	HMGP Approval Letter	
8.1-C	Adoption Resolution	
8.2-A	Selection of Consultant and Steering Committee Resolution	
8.2-B	Steering Committee Appointment Letter	
8.2-C	Plan Development Meeting Materials – July 25, 2012	
8.2-D	Plan Development Meeting Materials – August 14, 2012	
8.2-E	Plan Development Meeting Materials – September 19, 2012	
8.2-F	Plan Development Meeting Materials – November 14, 2012	
8.2-G	Online Survey	
8.2-H	Public Meeting Input to the Planning Process – November 3, 2012	

8.2-I	Public Meeting Draft Plan Review – February 28, 2013
8.2-J	Online Draft Plan Review Documentation
8.4-A	Critical Facilities
8.6-A	Completed/In Progress Mitigation Actions
8.6-B	NFIP Public Information Documentation
8.6-C	Summary of Changes to Goals, Objectives and Actions
8.6-D	Ranking Process of 2013 Hazards
8.6-E	HMGP Notice of Intent Sample
8.7-A	Completed HMC Annual Review Documents
8.7-B	Plan Evaluation Checklist, Project Implementation Worksheet, and Evaluate your Planning Team Checklist
8.7-C	Plan Amendments
8.7-D	MEMA Damage Assessment Forms (IA and PA)
8.7-E	Public Involvement Activities