

FEMA Hazard Mitigation Plan for the FAU Satellite Campuses

Daniel Harper, Megan Looby and Dr. Evangelos Kaisar
Civil, Environmental, and Geomatics Engineering
Florida Atlantic University

Abstract

This research project involves the development of mitigation plans for the satellite campuses of Florida Atlantic University (Dania Beach, Fort Lauderdale, Davie, Jupiter, Harbor Branch, and Treasure Coast) and was assigned by the Federal Emergency Management Agency (FEMA). The first step in this research project is to develop separate appendices for each of the FAU satellite campuses. With this data it is possible to develop cost-benefit analyses for the buildings on the different campuses. After the appendices are complete a final report can be developed for each of the satellite campuses. The final report will include hazard identification and analysis; vulnerability and risk assessment; and a hazard mitigation and implementation strategy for each of the campuses.

Method

Develop a mitigation plan for each satellite campus belonging to Florida Atlantic University. Six campuses are under study, requiring research in order to compose two reports: one consisting of appendices for each campus and one final report applied to all campuses.

Campuses Under Study

- Dania Beach (Sea Tech)
- Davie
- Fort Lauderdale
- Harbor Branch
- Jupiter
- Treasure Coast

Research

- Visit each campus to collect building structural information.
- Hazard assessments for each campus.
- Utilization of the software "Hazus MH MR3" to create hazard maps for each campus.
- Composition of a final research report containing all campuses.
- Develop set of appendices for each individual campus.

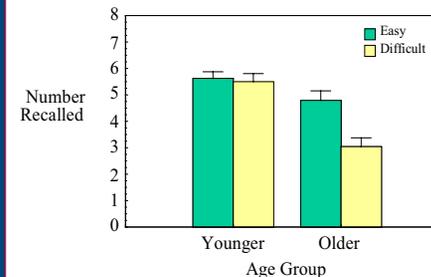
Appendixes

- Appendix A
Evaluation of mitigation plan developed.
- Appendix B
Building assessment (collection of data) and identify damage potential using specific software (Hazus MH MR3).
- Appendix C
Presentation of meeting minutes and agendas, related to each different campus study.
- Appendix D
Publication of FEMA project and online communication of people involved.
- Appendix E
Project list.
- Appendix F
Infrastructure maps from FAU campuses.



Time-line

- A.Organizational Structure: ONE MONTH
- B.Promotional, Educational, and Outreach Program: TWO-SIX MONTHS
- C.Risk Assessment: THREE MONTHS
- D.First Draft Plan: SIX-EIGHT MONTHS
- E.Multi-Hazard Mitigation Strategy: EIGHT-TWELVE MONTHS
- F.Educational and Outreach Program: TWELVE-SIXTEEN MONTHS
- G.Second Draft of Plan: SIXTEEN-EIGHTEEN MONTHS
- H.Final Draft of Plan: EIGHTEEN-TWENTY TWO MONTHS
- I.Submission of Draft to DCA and FEMA: TWENTY TWO-TWENTY FOUR MONTHS



Conclusion

The Federal Emergency Management Agency (FEMA) is an organization that aims to improve, build and sustain the nations capabilities to protect against, prepare for, respond to, recover from and mitigate all hazards. The hazard mitigation plan covering all of FAU's satellite campuses will provide hazard identification that will include flood, wind, fire, and geological related hazards. Hazard mapping, vulnerability assessments, hazard mitigation strategies and deliverables will be formed and utilized through the identification of hazards. With these tools FAU will be able to prepare for, respond to, recover from and mitigate against all hazards thus providing the utmost safety and wellness for all students, faculty and staff at Florida Atlantic University.

Acknowledgements

1. Federal Emergency Management Agency (FEMA)



2. Florida Division of Emergency Management

