



OMB Control Number: 0710-0016 Current Expiration Date:12/31/2018

New Orleans District

Approval for a Behavioral Survey as Part of the Southeast Louisiana Hurricane Evacuation Study

						S	ubmi	ssion Dat	e	1/11/2016
1.	Project Title:	Analyzing eva evacuation ar				tern Loui	siana	to deve	lop) hurricane
2.	Abstract:	a behavioral s study. The be Plaquemines, Terrebonne, I from this surv clearance tim or tropical sto	survey of re ehavioral s Jefferson, Lafourche, vey will be es for evac orm. This ime requir	esidents of survey cor , St Berna , Tangipal incorpora cuations of collection rements t	of southea mprises re ard, St Jam hoa, Living ated into a of populat n will prov	ast Louisia sidents ir es, St Joh ston and a Hurricar ions in SE ide inforr	ana a n the In, St Asce ne Ev E Lou matic	is part of parishes Charles, ension. In vacuation isiana in on to det	a l of St nfo St ad ad	,
3.	Principal Investi	ator Contact	Informatic	on						
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4. Project Liaison Contact Information

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	Where Research is to I	be Conducted: 13 Coastal Parishes in Southeast Louisiana
6.	Survey Dates:	March 30, 2016 to June 1, 2016
7.	Type of Information Co Mail-back Questionna On-Site Questionnair Other (explain)	
8.	Survey Justification: (Use as much space as needed; if necessary include additional explanation on a separate page.)	 The U.S. Army Corps of Engineers (USACE) is currently conducting a Hurricane Evacuation Study for southeastern parishes in Louisiana. Part of this study requires an analysis of the anticipated evacuation behaviors of residents in the area of potential impact. The survey aims to answer the following study questions: a. What will be the trigger for evacuation for the residents in the study area? b. What resources will they take with them? c. What is the expected evacuation destination? d. What form of transportation will they take? USACE assists state and local partners by preparing the hurricane evacuation studies; the result is a series of clearance times associated with evacuations before the advent of a hurricane. Part of the HES consists of behavioral assessments of how the residents will be leave and what are the triggers for individual evacuation. Those behaviors will be analyzed through this survey.
9.	Survey Methodology: (Use as much space as needed; if necessary include additional explanation on a separate page.)	 (a) Respondent Universe: The potential respondent universe will consist of residents living in coastal area where public officials may call for an evacuation when a hurricane threatens. A study proposals must include a description of a survey's particular respondent universe. The sample population is typically identified using available hurrican risk data, including data on areas at risk from hurricane storm surge flooding, previous hurricane evacuation studies or hurricane response plans, established hurricane evacuation zones, and in coordination with State and Local governments within the study area who are responsible for hurricane emergen management and evacuation decision making. For the Southeast Louisiana Hurricane Public Evacuation Behavior Survey, the study will collect 2,600 responses from residents of 13 Louisiana Parishes: Plaquemines, St. Bernard, Jefferson, Orleans, Lafourche, Terrebonne, St. Charles St. John the Baptist, St. Tammany, St. James, Tangipahoa, Livingston, and
		Ascension.

phones, random digit dialing of cell phones, and a listed sample.
(b) Survey Administration:
Instrument Administration: Survey data collection will primarily be through telephone calls to addresses in or near hurricane evacuation zones. This is generally the method recommended by Social Science subject matter experts for this type of collection. Survey administrators use specialized software to record responses for better quality control and assurance, and to provide for efficient tabulation of the results.
(c)Expected Response Rate:
Based on experience with previous hurricane evacuation public behavior surveys, we estimate that there will be approximately 1500-3000 completed surveys for the hurricane evacuation behavioral study effort, which will be conducted by telephone. In recent evacuation behavioral surveys, using commercially available published listings of landline telephone numbers with geocoded physical addresses, 37.5% of the numbers were reached successfully. The attrition is partly due to numbers that have been disconnected, commercial numbers that were incorrectly classified as residential, and so forth. But most of the attrition is due to residents not answering their phone. Of those who do answer, approximately 40% have most recently agreed to participate in the survey, resulting in an overall response rate of 15%. The 15% figure is better that the national average for landline surveys of 9%, mainly due to greater interest in the subject matter of the survey. Response rates for this survey effort is expected to be similar and at or above levels needed to obtain statistically viable results. USACE New Orleans District is working with local emergency operations centers to communicate to the public the importance of participation. This is intended to maximize response rates and ensure that these are integrated as part of the survey methodology in the supporting statement for each information collection to be considered under the clearance.
(d) Data Analysis Plan: The data analysis conducted will be a descriptive profile of the responses to the individual survey questions and the development of custom depth-damage relationships for parish locations. The custom depth-damage relationship will be developed with information obtained from the survey. Adequacy of the response rate will be judged by the degree to which coverage of the coastal parishes are represented in the responses.
(e) Non-response Bias Testing:
The sample selection and data analysis plan targets the collection and use of site specific data. <u>For those respondents who indicate they do not wish to</u>

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	participate share similar characteristics. The questions that will be asked (if possible) are as follows:
	 We have found that in studies of this type that people have a lot of different reasons for electing not to participate. Understanding the reasons for non-participation will help us to improve future survey approaches. Which of the following statements best describes your reason for electing not to participate? I do not have time to answer the questions. I am not interested in the Study or its outcome. Objected to the way a question (or questions) was asked. Other
	2. What is your zip code?
	3. Including yourself, how many people live in your household?
	 <u>4. What is the primary language spoken in your home? [Don't read.]</u> <u>1 ENGLISH</u> <u>2 SPANISH</u> <u>3 OTHER: SPECIFY</u> <u>4 NOT SURE OR DON'T KNOW</u> <u>5 NO RESPONSE</u>
	Non-response feedback obtained will be analyzed for bias, focusing on the
	demographic questions we ask the non-respondents as a corollary to question 1.
10. Burden Estimates:	
	demographic questions we ask the non-respondents as a corollary to question 1. The project will require 30 minutes of participation for each survey, with an
	demographic questions we ask the non-respondents as a corollary to question 1. The project will require 30 minutes of participation for each survey, with an anticipated 2600 respondents. Total burden will be 1300 hours. The data collection results are used to support the shelter analysis and transportation analysis of the HES process, through providing information on the percentage of people likely to evacuate in different hurricane scenarios, evacuation orders, where they would go, if they would go to a shelter, what roads they would take, how many vehicles, etc. Results are also tabulated withir a report that summarizes the overall responses to each question, but does not provide the responses from each individual survey response. The reports are use as an internal reference for the Federal Government but also provided to State/Local governments to support hurricane response planning efforts, and programs to communicate evacuation zones, evacuation plans/procedures, and

tabulation.

References used: