DESIGNATION OF AGENT

RESOLUTION

BE IT RESOLVED THAT THE BOARD OF	COUNTY (Public Entity)
(Governing Body	(Public Entity)
THAT STEPHEN LIBHART, DIRE (Name)	CTOR OF FMA, EMERGENCY MANAGEMENT COORD.
	ed to execute for and in behalf of
documents for the purpose of obtaining fina (HMGP) or the Pre-Disaster Mitigation (PDM Emergency Assistance Act (Public Law 93-288 Assistance (FMA) program, Repetitive Flood program under the National Flood Insurance Act	the Commonwealth of Pennsylvania, all required forms and notial assistance for the Hazard Mitigation Grant Program.) program under the Robert T. Stafford Disaster Relief and as amended by Public Law 100-707) or the Flood Mitigation Claims (RFC) program or Severe Repetitive Loss (SRL) et of 1968 (42 U.S.C. 4001 et seq), National Flood Insurance I the Flood Insurance Reform Act of 2004 (Public Law 108-trams indicated below (check all that apply):
⊠ HMGP □ PDM	□FMA □RFC □SRL
Passed and approved this 12	day of February , 2014.
ČE,	RTIFICATION
* LAUNA CULLISON	
(Name)	uly appointed and <u>Chief Clerk</u>
(Public Entity)	lo hereby certify that the above is a true and correct copy of
a resolution passed and approved by the $_$	Ouphin County Board (Governing Body)
of Commissioners	n the 12 day of February \$30,14
lin	Chief Clerk 12/12/14
(Signature)	(Official Position) (Date)



Hazard Mitigation Grant Program Official Application

BBNAA	ikwalawas Anglesia	suirida mComp	ly I:	unts nicum des		Militaria.	
I. OVERALL PROJECT INFORMATION:							
Project Title:Digital Flood Warning System_ (Enter a title that will allow reviewers to identify the	he project – i.c	e. County	+ Municipa	lity + ST o	r Neighb	orhood &	Pj Type)
PROJECT TYPE: (Please check the appropriate be Acquisition Str		Plans_	Educat	on	Earthqua	ike	
See and use corre	sponding add	lendum t	o project ty	pe	::	·	
• Total number of Properties (Not owners): letter)	N/A		_ (Include l	ist of all po	ssible ad	ldresses is	ı cover
Community NFIP Status: Participating: YES	NO <u>Yes</u>	<u> </u>	<u> </u>				
Are you in good standing YES NO YES	YES					:.	
CRS Community: YES NO YES Congressional District #: 09/05/11/15		otal Pro	ject Cost fr	om part IV	/: A \$	122,000	
Congressional Representative's name (NOT Senator	. 1			77			
Are you a Firewise Community? YES NO_NO_ II. APPLICANT'S INFORMATION:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						
A. Municipality/Agency Name and Street Address				:			
Huntingdon County Emergency	:	it Agenc	<u> </u>	······································		· · · · · · · · · · · · · · · · · · ·	<u></u>
223 Penn Streef, Huntingdon PA 160	652		<u></u>	<u> </u>	···		
Telephone Number: <u>814-643-6613</u>		FAX Ni	ımber:	<u>814-643-8</u>	178		
E-Mail Address: ema@huntingdo	oncounty.net		·				
B. Attach Directions to Municipality:							



C. Alternate Contact Name (Not Applicant Agent): Benjamin Pratt

Phone Number if different from above: 717.238.0423 E-mail: bpratt@srbc.net

II. APPLICANT'S INFORMATION Continued

Name: PRINT Adam L. Miller							i. <u></u>	!	.:* 	
Address:223 Penn Street, Huntingdo	on PA 16652					· ·				:
Telephone Number: Area code8	14-643-6613	<u> </u>	FAX	No	81-	1-643-	8178			41,5
E-mail:ema@huntingdencous	ıty.net	· · · · · · · · · · · · · · · · · · ·		:. :: 				: .	:. 	:
NEWSPAPER: Local largest newspap					1 1	٠.	. :		:::	
Name of Newspaper:The Daily	News (Huntingde	on,Blair)				:				:
Address:320 Washington Str	ect, Huntingdon	PA 16652			: :	:			111	
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Telephone:814-643-4040	FAX	Če :	814-643-0	376		.: .:				
Centact:Polly McMullin	1 11 11				111		_			
Name of Newspaper: Patriot-Ne										
Address: _2020 Technology Parkway	- 1		1. 11		:			_	:::	
Mechanicsburg, PA 17050	*		, , , , , , , , , , , , , , , , , , ,			**		-		٠
						-				
Telephone:717.255.8121			232,9307			•	_ :			::
- Tennes (All Personal Research										

III. For a "phased project", emergency work or completed work - please fill out Addendum 1.

IV. DETAILED PROJECT DESCRIPTION

Explain the proposed project in very specific detail so that a <u>reviewer who doesn't know</u> your community can fully understand what you intend to do. <u>This is the scope of your project.</u>

Answer each question completely with who, what, where, why and how in detail.

(Answering only Yes or No may cause application to be ranked as ineligible for funding)

1. What is the problem this project will solve? HOW will you solve the problem?

Emergency management's ability to protect life and property during flood events is entirely dependent on the warning system in place to predict and inform critical decision making. Two types of flooding impact Blair, Huntingdon, and Dauphin counties and include riverine and flash flooding. Riverine flooding occurs when streams rise out of their banks and impact adjacent floodplains. Forecast

5/2010 PEMA

lead time is typically 9 hours or more but the widespread nature of the event provides resource challenges to manage. Flash flooding, associated with relatively short term high intensity rainfall or rapid snowmelt poses the biggest challenge for emergency managers as forecast lead time is typically 3 hours or less. The localized nature of flash flooding makes events particularly difficult to plan for and respond to.

The project will enhance situational awareness through a variety of pathways including existing smartphone technologies and new digital imagery. The existing SRWatch platform will utilize Android and iPhone applications to identify, map, and disseminate critical information related to flood conditions and aid in flood recovery through development of rapid damage assessment capability. A total of 9 camera installations (exact location TBD) will be selected such that downstream forecast lead time is maximized by observations from each of the cameras. Staff gages will be installed to allow rapid determination of rising and falling streams. An algorithm will be developed allowing identification of surface water elevation to provide enhanced data collection to determine rate of water level rise, a key parameter for flash flood warning and response.

2. Is it a repetitive problem? Give all specifics? How often? (Example: Flooding has occurred 10 times since 1972 since the construction of Park Mall upriver. (Ross River)

Flooding continues to be a repetitive problem in all 3 counties partnering in this project and the Susquehanna River Basin in general. Hazard Mitigation Plans for each of the counties identifies flooding as either the most prevalent or significant natural hazard effecting each county. The table below shows various flood events since the year 2000.

5/2010 PEMA

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HUNTINGDON 9/18/2004 Flood DAUPHIN 8/6/2011 Flash Fl	
DAUPHIN 9/16/2004 Flood DAUPHIN 9/7/2011 Flash Fl	
DAUPHIN 9/18/2004 Flood DAUPHIN 9/7/2011 Floor	
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DAUPHIN 9/29/2004 Flood HUNTINGDON 9/27/2011 Flash Fl	boc

Marriera Mallaceal Character Dates Constan

3. Does it pose a significant health or safety risk if left unsolved? What kind of risk?

The problem poses a significant risk to citizens and emergency managers alike. Citizens at risk of flood threat need to be informed of a pending flood to take necessary response action. Emergency managers are placed at risk when those living within an area susceptible to flooding do not take appropriate action and are called upon to perform rescue operations. Primary risks associated with flooding include disease from tainted flood waters, electrocution, building collapse, and drowning. Secondary risks include reoccupation of the property post flooding events due to flood debris and biological contamination, detachment of the external heating oil tank due to hydraulic pressures causing environmental and health risks due to spillage, and the ever-present risk of complete loss of the structure due to forces related to floodwater and debris dislodging the structure from its foundation and allowing it to become a mobile debris object itself.

4. What is/are the name(s) of the bodies of water (creek, river, stream, etc.) contributing to this problem?

Dauphin County – Paxton Creek, Swatara Creek, Susquehanna River
Blair County – Little Juniata, Frankstown Branch Juniata, Clover Creek, Bruch Run, Old Town Run
Huntingdon County - Frankstown Branch Little Juniata at Alexandria, Shoups Run, Warriors Mark Run,
Raystown Dam, Shavers Creek, Great Trough Creek, Standing Stone Creek, Shaver's Run,

5. How often does this flooding or disaster occur?

	Juniata Basin Return Period Between Flood Stage Exceedence										
			A since	· · · · · · · · · · · · · · · · · · ·	Character Control						
Huntingdon	Juniata	12'	64.3	10	0.16	6.43					
Mapleton Depot	Juniata	20'	68.3	6	0.09	11,38					
Shirleysburg	Aughwick	10'	15.3	16	1.05	0.96					
Spruce Creek	Little Juniata	8'	67.58	65	0.96	1.04					

Source: Mid Atlantic River Forecasting Center

Lower	r Susquebanna l	Basia Reti	rn Period Bet	ween Flood	Stage Exceed	ances
127338	štoro (tages (1 Pakinga	Maria centroprografi	Maxica	groots partiser	
Harper Tavern	Swatara	9	94.8	152	1.6	0.62
Harrisburg	Susquehanna	17	84.33	30	0.36	2.81
Hershey	Swatara	7	37.33	45	1.21	0.83

Source: Middle Atlantic River Forecast Center

6. What is the amount of rainfall for each event?

67. NOTE: The stronger a rainfall's intensity (usually measured in inches per hour), the less frequently it is likely to occur. Similarly, a larger flood is expected to occur less often than a smaller one. Federal Flood-plain Management Regulations (44CFR\$9.4) defines a "Base Flood" as one "which has a one percent chance of being equaled or exceeded in any given year." It continues: "This term is used in the National Flood Insurance Program (NFIP) to indicate the minimum level of flooding to be used by a community in its floodplain management regulations."

Hydrology- the volume of water moving down a channel-include this information if at all possible, if available, Stream Flow Data-Can be obtained from the Flood Insurance Study (FIS) Check the table's listed Peak Discharges for 50 yr, 100 yr, & 500 yr flooding events, also add this information to spreadsheet (Acquisition)

•							
HUNTINGDON	7/28/2000	Flush Flood	2.00	HUNTHICOON	1/6/2005	Flood	1,38
DAUPIUB	9/19/2000	Flash Flood	1.46	DAUPHN	1/15/2005	Flood	1.89
DAUPHIN	12/17/2000	Flash Flood	3.12	BLAIR	3/26/2005	Flood	1.38
BLAIR	5/26/2061	Fineh Flood	1.37	HUNTERGOON	3/28/2905	Flood	1.37
BLAIR	6/21/2001	Fissh Flood	1.23	DAUPHIN	3/28/2005	Flood	1.51
BLAIR	7/25/2061	Flash Flood	1.64	DAUPHIN	3/29/2005	Flood	1.85
DAUPHIN	7/25/2001	Flash Flood	1.39	DAUPHIN	3/30/2005	Flood	1.85
BUNTINGDON	5/28/2002	Flash Floed	0.53	DAUPHIN	4/2/2005	Flood	2.10
HUNTINGBON	1/1/2003	Flood	1,30	DAUPHIN	4/3/2005	Flood	2.66
BLAIR	1/2/2003	Flood	1.45	HUNTINGBON	11/29/2005	Flood	0.50
FRATTINGDON	1/2/2003	Flood	1,30	HUNTINGDON	11/30/2005	Flood	1.72
HUNTINGDON	6/4/2003	Flead	1,66	DAUPHIN	6/25/2006	Flash Flood	3.95
BLAR	8/9/2003	Fissh Flood	1.95	DAUPHIN	6/26/2006	Flood	4.41
DAUPHIN	8/16/2003	Flash Flood	3.16	DAUPHIN	6/27/2006	Flash Flood	2.54
DAUPHIN	9/23/2003	Flash Flood	4.79	HUNTINGDON	6/27/2006	Flash Flood	1.12
DAUPHIN	9/23/2003	Fleed	4.79	DAUPHIN	6/28/2666	Floed	4.12
BLAIR	9/27/2003	Flash Flood	1.78	DAUPHIN	6/1/2007	Flash Flood	0.07
HUNTINGDON	9/27/2003	First Flood	1.30	HUNTMGDON	3/4/2008	Flood	2.60
BLAIR	11/19/2003	Flesh Flood	2.95	HUNTRIGDON	5/28/2009	Flash Flood	1.09*
BLAIR	11/19/2003	Plood	2.95	BLAIR	6/20/2009	Flash Flood	0.36
HUNTINGDON	11/19/2003	Fish Flood	0.45	BLAIR	3/13/2010	Flood	0.97
HUNTINGDON	11/19/2003	Flood	0.45	HUNTINGDON	3/13/2010	Flood	6.97*
HUNTINGDON	11/20/2003	Fleoid	1.50	DAUPHIN	5/2/2010	Flash Flood	3.34
HUNTINGDON	12/11/2003	Flood	1,75	HUNTHIEDON	5/23/2010	Fissh Flood	0.62
DANPHIN	12/11/2003	Fleod	1.96	BLAR	5/28/2010	Flash Flood	0.26
DAVPIN	12/12/2903	Fleod	1.93	DAUPHE	8/12/2010	Flash Flood	1.94
BLAIR	5/21/2004	Flesh Flood	2:35	BLAIR	12/1/2010	Flood	3.45
DAWPHIN	7/14/2004	Flesh Flood	1.30	HUNTINGBON	12/1/2010	Flood	3.45*
DAVEHIN	7/22/2004	Flash Flood	1.84	BLAIR	3/10/2011	Flood	2.36
<u>DAUPRIN</u>	7/23/2004	Flesh Flood	1,93	HUNTINGDON	3/10/2011	Flood	2.36*
DAUPHIN	8/1/2004	Flash Flood	2.64	DAUPHIN	3/10/2011	Flood	1.32
BLAIR	8/30/2004	Flash Flood	0,80	DAUPHIN	3/11/2011	Flood	1.98
BLAR	9/8/2004	Flood	5.54	DAUPHIN	4/16/2011	Fient Flood	3.71
HUNTINGDON	9/8/2004	Flood	0.02	HUNTINGDON	4/16/2011	Flood	1.37*
BLAIR	9/9/2004	Flood	4.48	DAUPHN	4/28/2011	Flash Flood	1.88
HUNTMGDON	9/9/2004	Flood	2,54	HUNTINGTON	5/3/2011	Flash Flood	0.26*
RLAIR	9/17/2004	Flood	5,28	DAUPHIN	8/6/2011	Flash Flood	6.92
MUNTENGERON	9/17/2004	Fleod	0.08	DAUPHIN	9/7/2011	Fisah Flood	8.43
DAUPHIN	9/17/2004	Flood	2.45	DAUPHIN	9/7/2011	Flood	8.43
AUNTINGOON	9/18/2004	Flood	4.54	BLAR	9/9/2011	Flash Flood	0.90
DAOPHOH	9/18/2004	Flood	7.40	HUNTINGUON	9/27/2911	Flesh Flood	1.03
DAMPHIN	8/28/2004	Flood	3.80	DAUPHIN	9/28/2011	Flash Flood	2.45
DAMPHIN	9/29/2004	Flood	2.58	HUNTINGDON	11/23/2011	Flood	1,66*
BLAEE	1/6/2005	Flood	1.85	DAUPHN	6/22/2012	Flash Flood	0.65

Sources of Date: NOAA historical precipitation data & CoCoRsHS daily precipitation data by county (PA rain gauges) *data from adjacent county

7. Give hydrology information. (See instructions for explanation)

Blair, Huntingdon, and Dauphin are all within the Ridge and Valley physiographic province of the Susquehanna River Basin. Blair and Huntingdon are characterized by steep slopes and fast responding streams. Dauphin while not as steep is largely urban and stream response is more rapid due to large impervious areas. The physical location of these counties makes them susceptible to tropical systems, short duration intense thunderstorms, and icejam flooding on the winter months.

8, Where did your information come from? (Official records, newspaper articles, etc-attach a copy)

Information collected and supplied in this application is a combination of agency records, media information, excerpts from county hazard mitigation plans and federal partner sources (National Weather Service, Mid Atlantic River Forecast Center, State College, National Climatic Data Center.)

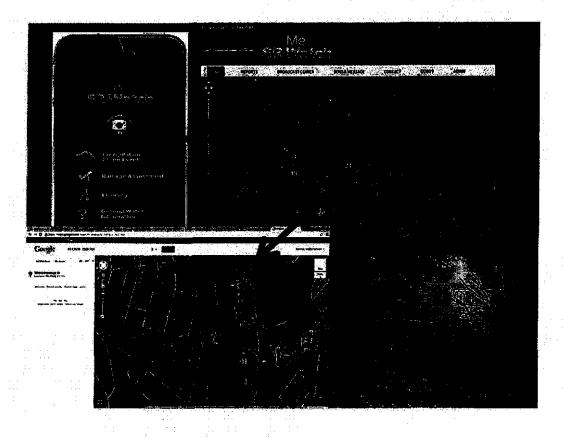
B. Explain HOW you will do the project, include copies of plans, any appropriate shop drawings, equipment specifications and design criteria, etc.

The project will commence with the acquisition of at least 12 "Style E" staff gages and Figure Plates and acquisition of at least 9 IP type IR cameras with cellular communication capability. A minimum of 3 locations in each of Huntingdon, Blair, and Dauphin will be identified and cameras will be installed at specified locations with staff gages in image field. Additional cameras may be installed as budget allows. Staff gages not installed with associated camera will be installed and monitored using SRWatch smartphone application. Communications will be established through cellular network or Wi-Fi as available and images will be provided from camera every 20 minutes via SRWatch platform.

The SRWatch Application will be installed on up to 20 additional smartphones. Users will be asked to provide "reports" daily of specife points of interest and more frequently during flood events. Staff gages not observed using a camaera will be observed periodically during normal streamflow and more frequently during a flood event using the SRWatch app. Data from the staff gage reports will be manually cataloged within online database allowing for development of streamflow record. County partners in the project will work with SRWatch contractor to facilitate further development of damage assessment tool to facilitate recovery response following a flood event. Additionally the application will be developed to provide debris management capability.

While the primary objective of this project is to enhance flood warning capabilities the SRWatch platform provide hydrologic and environmental monitoring capabilities beyond enhanced flood warning. Building stream flow record with camera and periodic mobile observations will be useful in determining onset and management of drought conditions. As well the application can be useful in identifying and documenting hazardous conditions related to severe winter storms.

The image below displays the SRWatch platform and report capability.



	project ma e penae	ntly solve the proble	m; YES X	XX NO		(n	NO Expla
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	THE DESCRIPTION						<u></u> .
. DETAILED PRO	JECT DESCRIP	TION CONTINUED					
major disaster.	YES	ure damage, hardshi (If yes - expla oject provide? (What	in what will k	e affected a	nd HOW, i		
The proposed protecting life.		nce forecast and war	ning capabili	ties thereby	reducing p	roperty da	mage an
Li communità inter			**	11			
For the <u>CURRENT</u>	disaster describe	all damages caused, mage and \$ specifics					ounts.
For the <u>CURRENT</u>	disaster describe						ounts.
For the <u>CURRENT</u>	disaster describe						ounts.
For the <u>CURRENT</u>	disaster describe						ounts.

10340g	of a confidence and angle	Adams Palains	ing describing states of the control	dani sasas	755	
Blair	\$ 1,088,311.00	1,290	\$ 182,629.00	1,011	\$	6,919,943.00
Dauphin	\$ 4,251,485.00	3511	\$ 607,331.00	5229	\$	85,217,871.00
Huntingdon	\$ 235,761.00	508	\$ 59,791.00	534	\$	9,452,558.00

	total # of people	_YES	public buildings	
Multiple YES	residential properties businesses/commercial properties	YES	schools/hospitals/hou	ises of wors
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		· · · · · · · · · · · · · · · · · · ·		
. Are you submitting this app	lication at the direction of any agency	77		
county	State	:	Federal	
If "yes" give details:				 -
		· .		. ::
		<u> </u>		
Indicate all hazards being mitig	ated in this project			
	desires ser series brollows			
X Flooding		x Drought	Earthquake	
X_ Flooding Tropical Storm	x_ Severe Winter StormsExtreme Temperatures	_x_ Drought Landslide	Earthquake Lightning Strike	
Tropical Storm Pandemic	xSevere Winter StormsExtreme TemperaturesSinkhole	Landslide Wildfire	Lightning Strike Tornado/Wind	1. ::
Tropical Storm	x_ Severe Winter StormsExtreme Temperatures	Landslide	Lightning Strike	1. ::
Tropical Storm Pandemic Environmental	xSevere Winter StormsExtreme TemperaturesSinkhole	Landslide Wildfire	Lightning Strike Tornado/Wind	1. ::
Tropical Storm Pandemic	xSevere Winter StormsExtreme TemperaturesSinkhole	Landslide Wildfire	Lightning Strike Tornado/Wind	1. 11
Tropical Storm Pandemic Environmental Other:	xSevere Winter StormsExtreme TemperaturesSinkhole	Landslide Wildfire Urban Fire	Lightning Strike Tornado/Wind	1. ::
Tropical Storm Pandemic Environmental Other: Have there been any Public Me	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N	Landslide Wildfire Urban Fire	Lightning Strike Tornado/Wind	1. 11
Tropical Storm Pandemic Environmental Other: Have there been any Public Me	x Severe Winter Storms Extreme Temperatures Sinkhole Transportation Accidents	Landslide Wildfire Urban Fire	Lightning Strike Tornado/Wind	1. 11
Tropical Storm Pandemic Environmental Other: Have there been any Public Me	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N	Landslide Wildfire Urban Fire	Lightning Strike Tornado/Wind	1. ::
Tropical Storm Pandemic Environmental Other: Have there been any Public Me	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N	Landslide Wildfire Urban Fire	Lightning Strike Tornado/Wind	1. ::
Tropical Storm Pandemic Environmental Other: Have there been any Public Me If Yes, when: PROJECT LOCATION	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N	Landslide Wildfire Urban Fire	Lightning Strike Tornado/Wind Utility Interruption	1. 11
Tropical Storm Pandemic Environmental Other: Have there been any Public Me If Yes, when: PROJECT LOCATION A. Describe in detail the locat	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N	Landslide Wildfire Urban Fire	Lightning Strike Tornado/Wind Utility Interruption	1. 11
Tropical Storm Pandemic Environmental Other: Have there been any Public Me If Yes, when: PROJECT LOCATION	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N	Landslide Wildfire Urban Fire	Lightning Strike Tornado/Wind Utility Interruption	1. 11
Tropical Storm Pandemic Environmental Other: Have there been any Public Me If Yes, when: PROJECT LOCATION A. Describe in detail the locat B. In what Flood Zone(s) is year	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N tion of your project, include it's topogour project located?	Landslide Wildfire Urban Fire O	Lightning Strike Tornado/Wind Utility Interruption	
Tropical Storm Pandemic Environmental Other: Have there been any Public Me If Yes, when: PROJECT LOCATION A. Describe in detail the locat B. In what Flood Zone(s) is year.	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N tion of your project, include it's topog our project located? A (No Base elevation giv	Landslide Wildfire Urban Fire O	Lightning Strike Tornado/Wind Utility Interruption	
Tropical Storm Pandemic Environmental Other: Have there been any Public Me If Yes, when: PROJECT LOCATION A. Describe in detail the locat B. In what Flood Zone(s) is year	xSevere Winter Storms Extreme Temperatures Sinkhole Transportation Accidents ettings on this project? YES NO_N tion of your project, include it's topogour project located?	Landslide Wildfire Urban Fire O	Lightning Strike Tornado/Wind Utility Interruption	

- C. Flood Insurance Rate Map (FIRM) showing project site (To be supplied upon acceptance and final determination of camera installations)
 - Attach a copy of the panel(s) from the FIRM, and if available, the Floodway Map.
 - Clearly mark the project site and all properties and structures.
 (For information on getting FIRMS see instructions)
 - If FIRM is unavailable- attach a Flood Hazard Boundary Map (FHBM) and mark project site/properties.
 - Is a D-FIRM available? NO
 - D. MAPS--City, County, Topography and Parcel (See Attached)

Attach a copy of the following & clearly mark the project site, and place the specific project structure(s) on map(s).

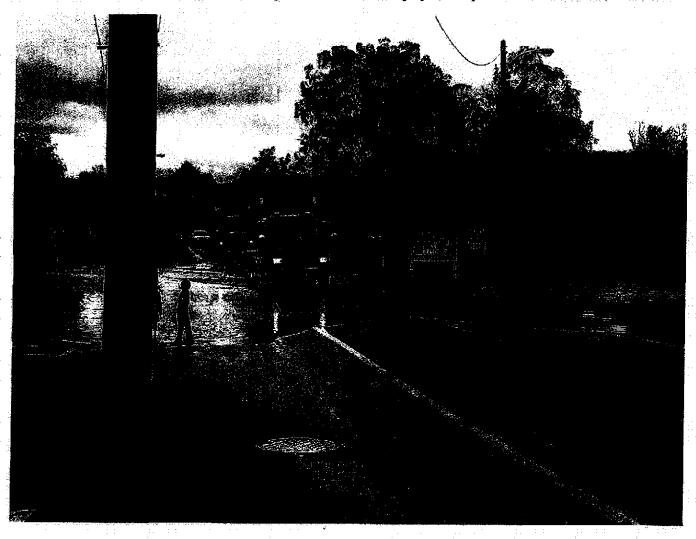
- · City or county scale map large enough to include entire project site.
- USGS 1:24,000 Topo Map with project marked and showing all.
- · "Quad Map" also marks project area.

For Acquisition and Elevation Projects, ADD a copy of:

- Parcel Map (also called Tax Map, Property Identification Map, etc).
- Map should include Tax ID numbers for each parcel.
- Mark each structure on the maps.
- E. LATITUDES and LONGITUDES Digital (See Attached Maps)
 - Please provide digital latitudes and longitudes for your project site. (Can also add to maps)
 <u>Acquisition and Elevation Projects</u> digital latitudes and longitudes for each property (see Addendum 2-spreadsheet)

F. PHOTOGRAPHS Please include: (Digital)

- Structural/Earthquake Projects:
 - 2 Photos minimum streetscape views- should be representative of project area, include any relevant waterways and drainage area which affect the project. If any structures are included, do as below



Shavers Creek @ Petersburg (pic post flooding from 2004, bridge has been replaced)



Shoup's Run @ near Coalmont (pic post flooding from 2004)



Little Juniata @ Huntingdon looking upstream



Standing Stone Creek @ McAlevy's Fort (pic post flooding from 1993, bridge has been replaced) This point is affected also by Laurel Run and East Branch Standing Stone Creek.

			:: .		<u>;</u> ;;	11 /	1 1	-
G.	SUBSTANTIALLY DAMAGED	PROPERTIES (SDP) - Ac	equisition Proje	ects Only			
.1.	Attach SDP Form for each su	hetantially dain	and stem	stura (Asmaga	EAS/ an m	Jamaš		
	Name of body of water that is			cture launske	> 30 70 UI II	ioi e)		
Н.	DIRECTIONS		. j.					
:	Provide detailed dire	officer to mention						
	Acquisition and eleve	ntion projects- P	rovide di					
	Don't forget! Add project to your su			dresses of all p	roperties is	icluded in	this	
	Huntindon and Blair cour	itles are arressli	le from il	se PA Turnnike	A.763 and	IIC Dia 22	9	
				· ·		US RIE 32	•	:
	Dauphin County is access	ible from the PA	Turnpike	(1-76) and 1-83	1 1.	1:		
VI. C	OST ESTIMATES- (Budget Page)							
		and the second second	فمانشان سال	and the second				
A, c	Specific cost breakdown of total fun		, no en approximation of the same					:
	Federal share: \$	_91,500.00	This wi	ll be 75% of th	e project co	ist		
	State share	_24,400.00	(This in	formation will	be provide	d by PEM	A if app	olicable)
:	Applicant share	_6100.00_	<u>. :.</u>	Source: SRBe	C	1	;. ;.	
	Other non-Federal share		Source:	· .	· · · · · · · · · · · · · · · · · · ·		· ·	1 1
	Total** \$	122,000.00						
	**Phis ngare is to be entered in (ar com	COPMA-EION				
		2.5-2.V-1.L-1.E-1.E-1.			-onveneuro	in habani	mestable	MISHIPAL.
B. C	Cost breakdown of Project costs:							
	Engineering/Design (Contracted)	\$ 50,000))	Date this estim	iote wos nr	engred:	02/26/2	Δ13
	Camera/Communications	_42,000			may van Pa			<u></u>
	Staff Gages Project Management *	_15,000 _19,000					•	: :::
1 1	Other (specify):		11					
1.	_Contingency	5000_	-	1. 11			4	
:					1 1.			
						::		
	Total**	\$ 122,000						

* NEW All management costs must now be listed here **This figure must be the same as the "Total" above)

B. 1. NEW- Text explaining each of the line items.

Engineering/Design - Costs incurred under this line item will include all development cost for smartphone application and digital data collection form camera installation. These tasks will be accomplished by contractor.

Camera/Communications — Costs incurred in this line item will cover all equipment costs and data communications for 24 months.

Staff gages - Costs incurred will cover purchase, permissions, and installation of staff gages at selected bridge locations.

Project Management - Costs incurred will include contract administration, project management, and travel as necessary

Contingency - Costs incurred will include fees and unforeseen additional costs.

C. Continuing (maintenance*) costs: (DO NOT ADD TO ABOVE) (For I year after project is completed)

Data Communications \$ 6000.00 Equipment support 2500.00 Materials/supplies 1000.00 Other: Total \$ 9500.00

D. Who will be responsible for and provide/perform the future maintenance?

SRBC

Has the Maintenance Agreement Certification letter been signed? YES NO X

VIL COST AND BENEFIT ANALYSIS-Provided by PEMA

^{*} Attach a ONE year schedule; show each of your maintenance activities and their costs.

VIII. DISCUSSION OF ALTERNATIVES- (Must have Three)

The Hazard Mitigation Grant Program regulations require that the project "Has been determined to be the most practical, effective and environmentally sound alternative after consideration of a range of options."

A. For each alternative be specific, be accurate, and give complete information and explain what would happen if this alternative is chosen.

(One of the alternatives may be the "do nothing" alternative, explain what will happen if this was chosen.)

First Alternative: (Your proposed project)

Provide flood warning system for Blair, Huntingdon, and Dauphin Counties using a combination of digital camera installations and smartphone technology.

Second Alternative:

Conduct this project without using automated reporting features, capitalizing only on human observation. This will limit night-time monitoring capabilities and place the reported at physical risk of proximity to the flooding to obtain the information, and in some cases this alternative will be completely ineffective if the site cannot be accessed at all due to regional flooding.

Third Alternative:

Do nothing. This alternative ensures that no advanced warning will be installed for protection of life and property of county citizens,

B. Why did you choose the proposed alternative over the others?

The proposed alternative affords the affected communities the greatest level of advanced warning and provides emergency management with the technology to adequately respond to flood emergencies within the affected communities.

- C. Acquisition Projects Only-How will the acquired land be used after the project is completed?
- D. Acquisition Projects only-Who will maintain the acquired land in perpetuity?

Attach the NEW-signed Maintenance Agreement Certificate

IX. PROJECT WORK SCHEDULE- 36 months Total

- To do this part see the Addendium for the type of project you are proposing.
 - A. List the steps or activities of the project and the estimated time frame for each, from the beginning to the end of the project.
 - B. See corresponding addendum for your project type for a work schedule example modify it to your project.

នៃស្រស់ ក្រស់ប្រាស់ ក្រស់ព្រះស្នេញ ព្រះស្រស់ នេះ ប្រែសេសស្រស់ ស្រស់ ស្រស់ ស្រស់ ស្រស់ ស្រស់ ស្រស់ ស្រស់ ស្រស់ ន

Purchase all necess	ary equipment			1-2 Months
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Obtain necessary permi and cameras (To coincid			fafica	1-2 Months
Install staff gages and c	ameras			1-2 Months
Develop damage assessm Camera reporting algori		gement, and		3-6 Months
	**************************************		:	
Monitor, evaluate, and ac Final inspection	dapt technology	: :-		18-24 months
Completion of Project		ii. :::	•	1-2 Months
Project Closed	: :: :. ::	N	o later th	an 36 months

ENVIRONMENTAL ISSUES A. Please check ALL that apply to your project: 100 Year floodplain Intermittent pond Stream, creek Floodway Mudflats Runoff Lake, pond Wetlands OTHER (Explain) Intermittent stream River B. Will the project impact (flood, drain, excavate, dredge, fill or otherwise affect) wetlands? No X Uncertain _____ If "yes" explain: ___ C. Are you aware of any hazardous materials or substances located on the project site or properties? NO X_ Unknown (If yes, add a separate attachment describing the hazardous material - MSDS sheet, Community's answer) Also attach a Hazardous Material Survey Form (MSDS) for each property, completed and signed by the property owner. 2. HISTORICAL ISSUES Please check all that describe your project site(s). (Read carefully.) [If Acquisition or Elevation, in addition to below, - See Addendum 2 and Complete one "Historical Property Evaluation Form" per structure, 50 years and older Please indicate ALL, SOME, or NONE for the following: 1. 50 years or older NONE 2. Located IN Historic district SOME 3. On the National Registry SOME 4. Near a historical PROPERTY SOME 5. Near a historic DISTRICT SOME 6. Property/neighborhood reviewed for National Registry Listing _NO B. If on Registry or IN a district, please give its official name and the agency which designated it. C. Has a survey to locate archeological sites and/or historic structures been carried out on the property? No X If "yes" explain: Date of survey: Name of firm: Is a report on file with the State Historic and Museum Commission? If YES, Was any historic property located? NO 7/2006 Final **HMGP Application Form**

Page 9

X. ENVIRONMENTAL AND HISTORICAL REVIEW & INFORMATION

Will project have any adverse affects	on th	e low to mederate i	псоше роринацов	? YES	NO_NO_	
Will the project have any adverse affe	et on	a minority populat	ion?	YES	NO_NO_	<u>.</u>
Be sure your Local Rev	iew &	Compliance Letter	r is attached to do	cument tl	iese answers.	1
Was a public meeting held? • If yes, please attach a de	ES scrip	NOtion of the public p	articipation and i	nclude pu	blic review of	the
mitigation options, (Add						:
OJECT COMPLIANCE ASSURANCE	ES					
Code Compliance	.:					
1. Will the project meet all applical					· · · · · · · · · · · · · · · · · · ·	X/Y
plumbing & electrical codes, publ	ic not	incation, bidding a	na contracting, e	e. YE	S NO_	YE
a. If NO, what specifically d				roject rec	juire it.	:
(Example: Project requires:	.	variance due	to)			·. :
2. Have any permits been applied for	rorg	ranted in relationsl	hip to this project	? YES	NO NO	-
	_					
If yes list:				_		
Regulatory Compliance						
1. Will project comply with ALL Fed	eral, :	State and Local law	s and regulations	including	, but not limite	ed
to the following;			·			
Applicable Health Codes	YES	NO_YES_	a d e les estados de la constante de la const			
■ Water & Air Quality	YES	NO YES				
 Wetland Management 	YES	NO_YES		: :		:
171 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	B.F.B.A	No remo				
 Floodplain Management 	YES	NO_YES				
 Other Regulatory Requirements 	YES	NO YES		:	:: ::	
						•
The little of th					. 1:1	
ational Flood Insurance (NFIP)	TENENS A	eli. Lilia de la caracteria de la caract	TOTAL STOR	TETRO	and the same of the same	e See
. Is the Community a participant in P			YES NO_	· · · · · · · · · · · · · · · · · · ·	(Info to fron	t Pag
2. Is proposed project located in a de-			YES NO	_YES VES		
 Is proposed project located in a de Is proposed project located in a de 					YES	
 is proposed project located in a de Is proposed project located in a de Is this designated on a FEMA Floo 		urance Hate Map (ermani er			
 Is proposed project located in a de Is this designated on a FEMA Floo If so, FIRM Panel Number, Zone, 	d Ins	Designation: _421	17000015cA	E Floodwa	y	-
3. Is proposed project located in a de 4. Is this designated on a FEMA Floo	d Ins	Designation: _421		E Floodwa	y	·

E.	Mitigation 322 Plan 1. Does your municipality have an approved Sub-grantee Multi-hazard Mitigation Plan (322 Plan)?									
	YES NO_YES 2. Which Goal/objective does this project address? 3. Has your proposed project been identified in this adopted/approved plan?	_(documen	it)	: : ::::::::::::::::::::::::::::::::::						
•	YES NO YES (Attach plan page where this project is lis	ted)		:						
	I certify all information in this application to be true, correct and complete to the l Applicant's Agent Signature:	best of my l	mowledge.							
:			3/1/2013							
:										
	Tryou do not understand any part of this application equal cut part Asimipre. Watting may cause your application to be untillicty and therefore makes									

Addendum
1- Phased Projects, emergency work, and already completed work
2- Acquisitions- More specific information will be needed (Don't miss the Spreadsheet)
Addendum
Addendum
Addendum
Addendum
Addendum
Addendum
Addendum
Structural & Earthquakes
5- Others; Plans/Education, Equipment

ADDENDUMS