

1. Administrative Details

Proposal Name: Kansas Citys Levees Modification

by Agency: City of Kansas City, Missouri

Locations: KS,MO

Date Submitted: 09/23/2015

Confirmation Number: 6919c666-5840-49d0-aeb2-4f204f0f09e4

Supporting Documents

File Name	Date Uploaded
2D NKCLD Letter of Support for KC Levees Project.pdf	09/23/2015
9C KC Levees Data Sheet 2016.pdf	09/23/2015
2A KCMO Kansas Citys Levees Support Letter.pdf	09/23/2015
9A KC Levees Support UG.pdf	09/23/2015
2C Fairfax Letter of Support for KC Levees Project.pdf	09/23/2015
2B KVDD Letter of Support for KC Levees Project.pdf	09/23/2015
9B cfm KC Levees Support Letter for Army Corps of Engineers 2016 Annual Report.pdf	09/23/2015

2. Provide the name of the primary sponsor and all non-Federal interests that have contributed or are expected to contribute toward the non-Federal share of the proposed feasibility study or modification.

Sponsor	Letter of Support
City of Kansas City, Missouri(Primary)	<p>KC Levee units operate as a system. To maintain the system approach, our primary request is modification to the existing Phase 1 KC Levees authority increasing total project cost to \$516M fully funded and adding Phase 2 Levee Units of the Armourdale and Central Industrial District (CID) KS and MO to the authorized project per the recommendations of the Ph 2 Chief’s Report dated January 27, 2015. The KC Levees Project began as one project. In 2006 design solutions to all but the CID and Armourdale Levee Units were complete. WRDA 2007 was on the horizon so a decision was made to seek authorization as Phase 1 of the units that were ready and continue working on the solutions for the Ph 2 Levee units under Feasibility. This approach was successful, authorization of the Ph 1 Levees was granted in WRDA 2007. Solutions for the Ph 2 Levee units have now been determined and a Chief’s Report issued. We seek to recombine the project into one requiring a modification to the existing project. Recombining will allow design and construction of Phase 1 Argentine unit that is dependent on the Ph 2 units to be done together. We have submitted a separate request for authorization of Ph 2 units by themselves, but this modification request is our preference. We understand our role as the Local Sponsor, along with KVDD; Fairfax Drainage District, and NKCLD per the Intergovernmental Agreement dated February 7, 2001 as the co-Local Sponsors, will be to provide the 35% cost share of the NED Plan. We understand that in order to construct the Ph 2 levee units, a modification to the existing authorization to increase total cost for the addition of these levee units is required. KCMO as the co-Local Sponsor has the financial capabilities to satisfy our obligations under the Ph 1 Project Cooperation Agreement (PCA) between the Department of the Army and our co-Local Sponsors. These improvements will produce annual benefits of more than \$30M and have a combined benefit cost ratio of 5.4.</p>
North Kansas City Levee District	<p>The North Kansas City Levee District (District) is a non-federal sponsor of the Kansas City Levees Project, Missouri and Kansas. As you may be aware, the North Kansas City Levee District, Fairfax Drainage District, Kaw Valley Drainage District, and the City of Kansas City, Missouri have entered into an agreement to act as a single sponsor with respect to the Project. While the work associated with the North Kansas City Levee Unit has been completed under Phase 1 of the Project, we continue to lend our support to the Phase 2 efforts. It is our understanding that a modification is necessary to authorize construction of the recommended improvements identified in the Phase 2 of the Feasibility Study. Please accept this as our statement of support for the modification of the project to increase the project cost to \$516 million fully funded. The modification will address the projects needed for</p>
6919c666-5840-49d0-aeb2-4f204f0f09e4	

3. State if this proposal is for a feasibility study, a modification to an authorized USACE feasibility study or a modification to an authorized USACE project. If it is a proposal for a modification, provide the authorized water resources development feasibility study or project name.

[x] Modification to an Authorized USACE Project : Kansas Citys Levees Kansas and Missouri

4. Clearly articulate the specific project purpose(s) of the proposed study or modification. Demonstrate that the proposal is related to USACE mission and authorities and specifically address why additional or new authorization is needed.

60 miles of levees constructed in 1940's and completed in 1980 along the MO and KS Rivers through the heart of the KC metropolitan area protect from floods its most densely developed business regions comprised of 5,000 commercial, industrial and residential structures with a combined investment totaled at more than \$20 B providing 94,000 jobs and home to 20,000 residents. Severe floods ravaged this area in the early 1900's and again in 1951. In 1993 the flood levels crested near the top of the levees and floodwalls revealing the need to evaluate how the levee system functions as a whole to reestablish the appropriate level of flood protection for the KC bi-state area near the junction of the KS and MO Rivers. In 2006 design solutions to all but the CID and Armourdale Levee Units were complete. WRDA 2007 was on the horizon so a decision was made to seek authorization as Phase 1 of the units that were ready and continue working on the solutions for the Ph 2 Levee units under Feasibility. This approach was successful, authorization of the Ph 1 Levees was granted in WRDA 2007. Solutions for the Ph 2 Levee units have now been determined and a Chief's Report issued. We seek to recombine the project into one requiring a modification to the existing project. Recombining will allow design and construction of Phase 1 Argentine unit that is dependent on the Ph 2 units to be done together. The seven levee units in the KC metropolitan area have been designed and are operated to act as a single system. Therefore, it is essential that all units have uniform performance characteristics and afford a uniform levee of protection. The projects associated with the Armourdale and CID levee units are needed for the project to fully realize the benefits anticipated to be more than \$30M with a combined benefit cost ratio of 5.4 to 1. We have submitted a separate request for authorization of Ph 2 units by themselves, but this modification request is our preference.

5. To the extent practicable, provide an estimate of the total cost, and the Federal and non-Federal share of those costs, of the proposed study and, separately, an estimate of the cost of construction or modification.

	Federal	Non-Federal	Total
Study	\$1,000,000	\$1,000,000	\$2,000,000
Construction	\$260,000,000	\$140,000,000	\$400,000,000

Explanation (if necessary)

This request is to modify the authorized Phase 1 Project at a total project cost of \$116,000,000 fully funded to \$516,000,000 fully funded in order to add the Phase 2 units and achieve a regional system wide uniform level of protection. The increase is for the additional levee units per the Chief's Report dated January 27, 2015. The cost increase is \$400 million fully funded at \$260 M Federal/\$140M Non-Federal Sponsor cost share.

6. To the extent practicable, describe the anticipated monetary and nonmonetary benefits of the proposal including benefits to the protection of human life and property; improvement to transportation; the national economy; the environment; or the national security interests of the United States.

Over 60 miles of levees constructed in the 1940's and completed in 1980 along the Missouri and Kansas Rivers through the heart of the Kansas City metropolitan area protect from floods its most densely developed business regions comprised of 5,000 commercial, industrial and residential structures with a combined investment totaled at more than \$20 Billion providing 94,000 jobs and home to 20,000 residents. Severe floods ravaged this area in the early 1900's and again in 1951. In 1993 the flood levels crested near the top of the levees and floodwalls revealing the need to evaluate how the levee system functions as a whole to reestablish the appropriate level of flood protection for the Kansas City bi-state area near the junction of the Kansas and Missouri Rivers. The recommended corrective measures to provide reliable protection include raising the levee/ floodwall at Argentine and Central Industrial District, Kansas; installing pressure relief wells, new piping and pump station all to control underseepage at several units; and reducing risk of system failure through sheetpile wall reinforcement and new construction for the Fairfax-Jersey Creek unit. These improvements will produce annual benefits of more than \$30,000,000 and have a combined benefit cost ratio of 5.4 to 1.

7. Does local support exist? If 'Yes', describe the local support for the proposal.

Yes

Local Support Description

Letters of support by cfm Dist. and UG. of Wyandotte Co.& KC, KS included and other supporters are:200 Funston,A&E Custom MFG.,Ace Foundry,ADA Badminton & Tennis,All Seasons Insul. All Systems,Allied Waste of KC, Alter Ego,Am. Clothing, Am. Equip.,Area CU, Arrow Dist.,Ashland Chem. ,Assoc. Maching,Baader N. Am.,Bartlett Grain,Batliner Paper,Bennett-Rogers,Bruno's Semi-Trailer Sales,B-S Steel of KS,CC Environklean , CE Water Mgmt.,Central Plains Steel,Central Solns.,Certainteed,Chemold Prod., Clark Enterprises, NH Am.,Conoco/Phillips,Conway Freight,Cross,CZ USA,Dupont,Easy Ceramic Decals,Empire Candle,Enserv Midwest,Envision,Exide Technologies,Exxon Mobile/Mobile-Signum Lab,Fairfax 66,Fairfax Indust. Assoc.,Fagan.Forbo Adhesives,Fowler Env.,G.S. Robins&Co.,Gen. Container, Gen. Motors-Fairfax Assembly,Graphic Serv.Printing,Greif.,Groendyke Transp.,Guardian Bldg.Prod.,Halco.,Hampel Oil,Harlan Global,Hydraulic Prts.&Serv.,Ind. Lumber,Innovative Adhesives,Integrated Document Soln., Intern. Transit Whse.,Inv. Sales,IPAC,J&L Bookbinders,Jack Cooper Transp.,James H. Ross,Jet Midwest, KS BPU, KS Cold Storage,KC Abrasive,KC Fairfax Fed. CU,KC Fluid Power,KC Custom Sign&Lighting,Kellogg's,KMDI,Langley,Leather Works,LNB Express,LSI Ind.,M.Quinn Whlsl,Magellan Pipeline,Manna Pro,Mark One Electric,Martech,McConway&Torley,McCray Millwork,Metal Cleaning Syst.,Mid Cont. Office Dist.,Mittelman Furniture.,Nat. Fiber Sup.,Nat. Fire Suppression,Neff Printing,Neff Sales,Orion Fittings,Orrick Trailer Serv.,Owens Corning Fiberglass,Packaging&More,Panel Syst. Plus,Peerless Conveyor,Permatex,Plasticon,PNA Const.,Preston Refr.,Priority Air Courier,Rail Car Serv.,Reddi Serv.,Reintjes&Hiter,Reliable Trans.,Robinsons Del. Serv.,Romac,RS Used Oil Serv.,Schultz Bros.,Shostak Iron&Metal,Stavely Serv.,Therमारoll Leaf,UAW Loc.31,UAW Mo-Kan Fed. CU,UHaul,UPRR,Vaught Grp.,Wagner Interior Supply,Wallis Lubr.,Warwick Paper.,Weyerhaeuser,Wingfoot CTS,Zimmer RE

8. Does the primary sponsor named in (2.) above have the financial ability to provide for the required cost share?

Yes

Primary Sponsor Letter of Support

(As uploaded)

2A KCMO Kansas Citys Levees Support Letter.pdf



KANSAS CITY WATER SERVICES

OFFICE OF THE DIRECTOR

4800 E. 63rd Street
Kansas City, MO 64130

P: 816-513-0504 F: 816-513-0185

September 22, 2015

U.S. Army Corps of Engineers
Attn: CECW-CE (Lisa Kiefel)
441 G Street NW.
Washington DC 20314-1000.

RE: Request for Kansas City's Levees, Missouri and Kansas Modification of Phase 1 or Authorization of Phase 2 for Inclusion in the February 2016 U.S. Army Corps of Engineers Annual Report to Congress on Future Water Resources Development Per Section 7001 of WRRDA 2014

Attention: Ms. Lisa Kiefel:

In response to the U.S. Army Corps of Engineers Request for Proposals, the City of Kansas City, Missouri requests the Kansas City's Levees, Missouri and Kansas Modification to Phase 1 approval be included in the February 2016 U.S. Army Corps of Engineers Annual Report to Congress on Future Water Resources Development, Per Section 7001 of WRRDA 2014. Alternatively should the modification not be found favorable, our request would be to authorize Phase 2 separately.

The seven units of the Kansas City's Levee operate as a system. In order to maintain the system approach, our primary request is modification to the existing Phase 1 Kansas City's Levees, Kansas and Missouri authority to increase total project cost to \$516,000,000 fully funded and add the Phase 2 Levee Units of the Armourdale and Central Industrial District, Kansas and Missouri to the authorized project per the recommendations of the Phase 2 Chief's Report dated January 27, 2015. Alternatively, authorization of Phase 2 separately would be our request should recombining the two Phases not be found favorable.

We understand our role as the Local Sponsor, along with Kaw Valley Drainage District of Wyandotte County, Kansas; Fairfax Drainage District of Wyandotte County, Kansas; and North Kansas City Levee District of Clay County, Missouri per the Intergovernmental Agreement dated February 7, 2001 as the co-Local Sponsors, will be to provide the 35% cost share of the National Economic Development (NED) Plan. We understand that in order to construct the Phase 2 levee units of Armourdale and Central Industrial District both Kansas and Missouri a modification to the existing Phase 1 authorization to increase total cost for the addition of these levee units or authorization of the Phase 2 units separately is required.

Kansas City, Missouri as the co-Local Sponsor has the financial capabilities to satisfy our obligations under the Phase 1 Project Cooperation Agreement (PCA) between the Department

of the Army and our co-Local Sponsors, or for a separate Phase 2 PCA to be authorized and executed.

Over 60 miles of levees constructed in the 1940's and completed in 1980 along the Missouri and Kansas Rivers through the heart of the Kansas City metropolitan area protect from floods its most densely developed business regions comprised of 5,000 commercial, industrial and residential structures with a combined investment totaled at more than \$20 Billion providing 94,000 jobs and home to 20,000 residents. The identified improvements to the levee system are essential to maintain the authorized level of protection throughout the levee system.

We look forward to your favorable review and inclusion in the U.S. Army Corps of Engineers 2016 Annual Report.

Sincerely,

A handwritten signature in blue ink, appearing to read "Terry Leeds".

Terry Leeds, Director

Other Non-Federal Sponsors Letter(s) of Support

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2B KVDD Letter of Support for KC Levees Project.pdf

THE KAW VALLEY DRAINAGE DISTRICT

WYANDOTTE COUNTY, KANSAS
FLOOD CONTROL ON THE KANSAS RIVER
719 OSAGE AVENUE
KANSAS CITY, KANSAS 66105
913-342-2382
FAX 913-342-2380

DIRECTORS
JAMES L. JENKINS
ANTHONY TALAVERA, JR.
DAVID R. MORALES

M. WARREN McCAMISH, JR., ATTORNEY

September 16, 2015

U.S. Army Corps of Engineers
Attn: CECW-CE (Lisa Kiefel)
441 G Street NW
Washington, DC 20314-1000

Dear U.S. Army Corps of Engineers:

The Kaw Valley Drainage District (KVDD) area has survived devastating floods in 1903, 1908 and 1951. Substantial improvements were made to the flood protection system after the 1951 flood. However, during 1993, the Kansas River came very close to overtopping our levees and KVDD was forced to write an evacuation order to move over 5,000 residents and businesses out of the Armourdale Community.

The sponsors of the seven levee units in the Kansas City area have worked together for years because our levees are interrelated and we share responsibility for the protection of our common community. The recent studies have shown the Armourdale and Central Industrial District Levee Units, for which we, KVDD, are responsible, do not provide the performance level equal to the other area levee units. Work on our third unit, the Argentine Unit, was previously authorized in Phase I Kansas Citys Levees Project – Kansas and Missouri. To provide equal protection for our residents, businesses and industry, we are asking you to modify the authorized total project cost of the Phase I authorized Kansas Citys Levees Project to \$516,000,000 fully funded and include the Armourdale and Central Industrial District, Kansas and Missouri Levee Units in the authorized project per pending Chief's Report. The addition of the improvements proposed in the Phase II Feasibility Report to the authorized Phase I project would provide the desired uniform level of performance for all the area levee units. Alternatively, authorization of Phase II separately would be our request should recombining the two Phases not be found favorably.

Cooperation of the seven Kansas City levee units and area cities was demonstrated during the 1993 near flood event. The 1993 event put our flood protection facilities and our emergency plan to the test. River monitoring, early warning, levee operation and ultimately an evacuation were all carried out with assistance from the Corps, other levee units and city/county emergency management.

Funding for the proposed improvements will require a joint effort between the drainage districts and municipalities. We are working with the City of Kansas City, Missouri and our other levee partners to develop a feasible funding program to address the projected costs and construction schedule.

On behalf of the Kaw Valley Drainage District, and our citizens and businesses, the Board wants to give its full support for the requested modifications to the Kansas Citys Levee Project and the recommended levee improvements or alternatively support of the Phase II authorization separately.

We appreciate the efforts of the Corps of Engineers in assisting us to serve the constituents in our District.

Thank you for giving us the opportunity to express our support for the Project.

Sincerely,



Mr. James L. Jenkins

Kaw Valley Drainage District of Wyandotte County, Kansas

Other Non-Federal Sponsors Letter(s) of Support

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2C Fairfax Letter of Support for KC Levees Project.pdf

**FAIRFAX DRAINAGE DISTRICT OF
WYANDOTTE COUNTY, KANSAS**
1620 Fairfax Trafficway
Kansas City, Kansas 66115-1408
(913) 321-2260
FAX (913) 321-1129

September 14, 2015

Department of the Army
Corps of Engineers, Kansas City District

Subject: Proposals From Non-Federal Interests for Proposed Feasibility Studies and Proposed Modifications to Authorized Water Resources Development Projects or Feasibility Studies for Inclusion in the U.S. Army Corps of Engineers (USACE) 2016 Annual Report

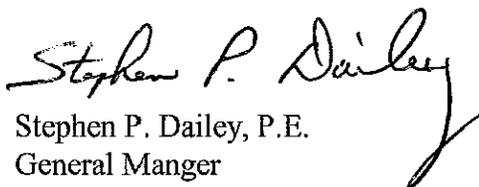
As a Non-Federal Sponsor Partner, the Fairfax Drainage District wishes to formally support the Kansas Citys Kansas and Missouri Levee Project modification proposal efforts to authorize construction of the recommended improvements as identified in the Feasibility Study for all units at a total project cost of \$516M fully funded. Alternatively, authorization of Phase II separately would be my request should recombining the two (2) phases not be found favorable.

Since our metropolitan levee flood control works was integrally designed and constructed to function as a system, it is imperative that the reliability of the entire system be maintained throughout. What positively or adversely affects one Non-Federal Sponsor has corresponding affects on the rest.

As a result, anticipated annual benefits from a fully functioning Kansas Citys Kansas and Missouri flood control system are in excess of \$30B with a combined benefit cost ratio of 5.4 to 1 (Note: this b/c ratio is the second highest of listed projects in the President's 2015 Budget Report).

Thank you for considering this letter of support for the much needed project modifications.

Respectfully yours,


Stephen P. Dailey, P.E.
General Manger

Other Non-Federal Sponsors Letter(s) of Support

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2D NKCLD Letter of Support for KC Levees Project.pdf

North Kansas City Levee District

INCORPORATED
—1909—
CLAY COUNTY, MISSOURI

TWO SOUTH MAIN, LIBERTY, MO 64068
(816) 781-4788

September 21, 2015

U.S. Army Corps of Engineers
441 G Street NW
Washington, DC 20314-1000.
Attn: CECW-CE (Lisa Kiefel)

Re: Kansas Citys Levees Project, Missouri and Kansas
Proposal for Project Modification or Authorization

Ms. Kiefel,

I write to you on behalf of the Board of Supervisors for the North Kansas City Levee District (District). The District is a non-federal sponsor of the *Kansas Citys Levees Project, Missouri and Kansas*. As you may be aware, the North Kansas City Levee District, Fairfax Drainage District, Kaw Valley Drainage District, and the City of Kansas City, Missouri have entered into an agreement to act as a single sponsor with respect to the Project. While the work associated with the North Kansas City Levee Unit has been completed under Phase 1 of the Project, we continue to lend our support to the Phase 2 efforts.

It is our understanding that proposal is necessary to authorize construction of the recommended improvements identified in the Phase 2 of the Feasibility Study. Please accept this letter as our statement of support for the modification of the project to increase the project cost to \$516 million fully funded. The modification will address the projects needed for Phase 2 which include the Armourdale and Central Industrial District levee units owned and operated by the Kaw Valley Drainage District and the City of Kansas City, Missouri. Alternatively we would support authorization of Phase 2 separately should recombining the two Phases not be found favorable.

The seven levee units in the Kansas City metropolitan area have been designed and are operated to act as a single system. Therefore, it is essential that all units have uniform performance characteristics and afford a uniform levee of protection. The projects associated with the Armourdale and CID levee units are needed for the project to fully realize the benefits anticipated to be more than \$30 billion with a combined benefit cost ratio of 5.4 to 1.

The seven levee units that comprise the levee system in Kansas City are vital to economic health of the region. Therefore, it is imperative that these projects be fully funded and expeditiously executed. We appreciate your consideration of the proposal. If you have any questions or concerns, please feel free to call me at (816) 221-2300.

Sincerely,

A handwritten signature in blue ink, appearing to read 'R. Lanning', with a long horizontal flourish extending to the right.

Richard M. Lanning
President

cc: Jerome Brant
Lynda Hoffman, KCMO

Additional Proposal Information

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9A KC Levees Support UG.pdf



**UNIFIED GOVERNMENT OF WYANDOTTE COUNTY
PUBLIC WORKS DEPARTMENT**

ENGINEERING DIVISION

ONE McDOWELL PLAZA
PHONE (913) 573-5700

701 NORTH 7TH STREET, 66101
FAX (913) 573-5727

September 21, 2015

Subject: Kansas City's Levees, Missouri and Kansas Project
Request for Modifications

Dear U.S. Army Corps of Engineers:

I am writing this letter to support the U.S. Army Corps of Engineers to keep the momentum going with design and construction of the above referenced project. This project is vital to the well being of Kansas City, KS and Wyandotte County. The Corps of Engineers' Phase I Feasibility Study (completed in December, 2006) made recommendations for improvements to the two (2) major drainage districts within Wyandotte County and the two major drainage districts on the Missouri side of the state line. As you are aware, the Kaw Valley Drainage District and the Fairfax Drainage District provide vital flood protection to our major industries, infrastructure, utilities as well as many residents along the Missouri and Kansas Rivers and that certain areas within these jurisdictions have been identified as needing improvement to reduce the flood risk brought to light during the Study. As you are also aware, the Chief's Report for the Phase II Feasibility Study for the Kaw Valley Drainage District was issued January 27, 2015.

Recognizing the recommendations of the Corps' Study and enormous investment (\$20 billion) protected by all four (4) metropolitan drainage districts, I also recognize the devastating impacts a flood would have on our community and regional economy (90,000+ jobs/lives). I fully support your efforts to continue the momentum of the project and request support for the modification request to authorize total project cost to \$516,000,000 fully funded and inclusion of the Armourdale and Central Industrial District, Kansas and Missouri Levee Units per the Chief's Report. Alternately, authorization of Phase II separately would be our request should recombining the two Phases not be found favorable.

The Unified Government wishes to express its appreciation of your past efforts in supporting this project, which is so vital to our community, and asks for your continued support to authorize the requested modifications.

Sincerely,

Mike Tobin- Director of Public Works
Unified Government of Wyandotte County/Kansas City, Kansas

Cc: Fairfax Drainage District of Wyandotte County
1620 Fairfax Trafficway, Kansas City, Kansas 66115

Kaw Valley Drainage District of Wyandotte County
719 Osage, Kansas City, Kansas 66105

Additional Proposal Information

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**9B cfm KC Levees Support Letter for Army Corps of Engineers
2016 Annual Report.pdf**



An Employee Owned Company

cfm Distributors, Inc.

1104 Union Avenue
Kansas City, MO 64101
816-842-5400 phone
800-322-9675
816-842-2681 fax
800-329-2236
www.cfm distributors.com

“your success is our mission”

September 23, 2015

Dear U. S. Army Corps of Engineers,

cfm Distributors, Inc., is an employee-owned regional wholesale distributor of Heating, Air Conditioning, and Refrigeration systems, components, supplies, and training, with facilities located throughout the Midwest, and headquarters facilities in Kansas City's historic West Bottoms (Central Industrial District).

Our corporate headquarters serves as the nerve center and physical distribution center for products manufactured in Wichita, Kansas and Norman, Oklahoma by York International, distributed through our regional distribution centers in Omaha, NE, Urbandale, IA, Springfield, MO, Lenexa, KS, and Wichita, KS. This facility is over 110,000 square feet in size and employs over 45 people.

This MOST important facility is in the levee protected area of the West Bottoms, along with \$20 billion in levee protected assets in the Kansas Cities' Levees project area. The industrial might of our region, and the remaining manufacturing and a good percentage of the distribution industry jobs are protected by aging levees that no longer provide the degree of protection that the metropolitan system was designed to provide.

Please support the modification request for the Kansas City's Levee system to include the Armourdale and Central Industrial District Kansas and Missouri Units and modify the total project cost to \$516 million fully funded in order for this vital project to be completed. Alternatively, authorization of Phase 2 separately would be my request should recombining the two Phases not be found favorable. I appreciate your support very much.

Sincerely,

Tom Roberts, President
cfm Distributors, Inc.
t.roberts@cfmkc.com
Cell 816-304-8035

Springfield

2215 W. Sunset, Suite A
Springfield, MO 65807
417-881-3600 phone

Lenexa

14227 W. 95th Street
Lenexa, KS 66215
913-438-4446 phone

Omaha

12115 Centennial Rd Ste 104
La Vista, NE 68128
402-201-2577

Des Moines

4137 109th Street
Urbandale, IA 50322
515-331-4137 phone

Wichita

212 S. Hydraulic
Wichita, KS 67211
316-262-5231 phone

Additional Proposal Information

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9C KC Levees Data Sheet 2016.pdf

KANSAS CITYS LEVEES

Kansas and Missouri

NON-FEDERAL SPONSORS

The Non-Federal Sponsors are the City of Kansas City, Missouri; Kaw Valley Drainage District of Wyandotte County, Kansas; Fairfax Drainage District of Wyandotte County, Kansas; and North Kansas City Levee District of Clay County, Missouri per the Intergovernmental Agreement dated February 7, 2001. The Non-Federal sponsors are working together on a Regional Levee System Floodplain Management plan and a financial plan to complete the project.

MODIFICATION REQUEST

Modification to authorized Phase 1 Kansas Citys Levees Project to increase total project cost to \$516,000,000 fully funded and add the Phase 2 Levee Units of the Armourdale and Central Industrial District, Kansas and Missouri to the authorized project per the recommendations of the Chief's Report dated January 27, 2015. Alternatively, authorization of Phase 2 separately is requested should recombining the units not be found favorably.

PROJECT PURPOSE

Over 60 miles of levees constructed in the 1940's and completed in 1980 along the Missouri and Kansas Rivers through the heart of the Kansas City metropolitan area protect from floods its most densely developed business regions comprised of 5,000 commercial, industrial and residential structures with a combined investment totaled at more than \$20 Billion providing 94,000 jobs and home to 20,000 residents. Severe floods ravaged this area in the early 1900's and again in 1951. In 1993 the flood levels crested near the top of the levees and floodwalls revealing the need to evaluate how the levee system functions as a whole to reestablish the appropriate level of flood protection for the Kansas City bi-state area near the junction of the Kansas and Missouri Rivers.



Section 216 of the 1970 Flood Control Act provides authority to reexamine completed civil works. The study area included all or portions of the communities of Kansas City, Missouri; North Kansas City, Missouri; Randolph, Missouri; Birmingham, Missouri; and Kansas City, Kansas. The overall feasibility study addressed the areas protected by the existing seven levees and directly-affected adjacent areas.

The Phase 1 Feasibility Study addressed recommended performance improvement in four of the levee units, (the Kaw Valley Argentine, North Kansas City, Fairfax-Jersey Creek, and East Bottoms Units). The Chief's Report for Phase 1 units was signed on December 19, 2006 and subsequently

authorized for in 2007 WRDA with construction start authorized in FY09. Construction began on the North Kansas City unit 2012 and was completed in 2013. Fairfax-BPU and Jersey Creek modifications began in 2013. Award of East Bottoms Unit underseepage improvements was awarded September 2014. The Kaw Valley Argentine Unit authorized in Phase 1 is dependent on the Phase 2 Kaw Valley units of Armourdale and Central Industrial District – Kansas and Kansas City, Missouri's Central Industrial District – Missouri Units.

Chief s Report for Phase 2 was issued January 27, 2015. This request is to modify the authorized Phase 1 Project at a total project cost of \$116,000,000 fully funded to \$516,000,000 fully funded in order to add the Phase 2 units and achieve a regional system wide uniform level of protection. Alternatively, authorization of Phase 2 separately is requested should recombining the units not be found favorably.

PROJECT BENEFITS

The recommended corrective measures to provide reliable protection include raising the levee/floodwall at Argentine; installing pressure relief wells, new piping and pump station all to control underseepage at several units; and reducing risk of system failure through sheetpile wall reinforcement and new construction for the Fairfax-Jersey Creek unit. These improvements will produce annual benefits of more than \$30,000,000 and have a combined benefit cost ratio of 5.4 to 1, the second highest of listed projects in the President's 2015 Budget Report.



1951 Flood Event



1993 Flood Event

STAKEHOLDERS/SUPPORTERS

The project area encompasses two major rivers, multiple levee units, and four local sponsors: City of Kansas City, Missouri, Kaw Valley Drainage District, Fairfax Drainage District, and the North Kansas City Levee District. The City of Kansas City, Missouri is submitting this request and have included letters of support from the other three non-federal sponsors.

Letters of support are also provided by cfm Distributors and the Unified Government of Wyandotte County and Kansas City, Kansas. Additional project supporters are as follows:

200 Funston LLC., A & E Custom MFG., Ace Foundry, ADA Badminton & Tennis, All Seasons Insulation, All Systems, Allied Waste of Kansas City, Alter Ego LLC, American Clothing, American Equipment Co., Area Credit Union, Arrow Distributing Inc., Ashland Chemical Co., Associated Machining, Baader North America Corp., Bartlett Grain, Batliner Paper Converting, Bennett-Rogers Co., Bruno's Semi-Trailer Sales, B-S Steel of Kansas, CC Environklean , CE Water Management, Central Plains Steel, Central Solutions, Inc., Certainteed Corp, Chemold Products, Clark Enterprises, CNH America LLC., Conoco/ Phillips, Conway Freight, Cross Corporation, CZ USA, Dupont, Easy Ceramic Decals LLC, Empire Candle, Enserv Midwest, Envision, Exide Technologies, Exxon Mobile/ Mobile-Signum Lab, Fairfax 66, Fairfax Industrial Association, The

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