

4000 DEFENSE PENTAGON WASHINGTON, D.C. 20301-4000

AUG - 7 2019

The Honorable John Boozman
Chairman
Subcommittee on Military Construction,
Veterans Affairs, and Related Agencies
Committee on Appropriations
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

The enclosed report is in response to House Report 115–673, page 13, accompanying H.R. 5786, the Military Construction, Veterans Affairs, and Related Agencies Appropriations Bill, 2019, requesting information on German energy law changes and the status of the Rhine Ordnance Barracks Medical Center (ROBMC) replacement project.

The ROBMC project is vital to the readiness of military and medical forces throughout Europe and the world. The ROBMC energy plan is designed to ensure a diverse and resilient energy supply for the ROBMC. This final report includes an updated DD Form 1391, the current Work in Progress Curve, and the total amount of funding for the utility plant within the military construction project.

Thank you for your interest in the health and well-being of our Service members, veterans, and their families. A similar letter is being sent to the other congressional defense committees.

Sincerely,

lames N. Stewart

Assistant Secretary of Defense for Manpower and Reserve Affairs, Performing the Duties of the Under Secretary of Defense for

Personnel and Readiness

Enclosure: As stated

cc:

The Honorable Brian Schatz Ranking Member



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AUG - 7 2019

The Honorable James M. Inhofe Chairman Committee on Armed Services United States Senate Washington, DC 20510

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Enclosure: As stated

cc:

The Honorable Jack Reed Ranking Member



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AUG - 7 2019

The Honorable Debbie Wasserman Schultz Chairwoman Subcommittee on Military Construction, Veterans Affairs, and Related Agencies Committee on Appropriations U.S. House of Representatives Washington, DC 20515

Dear Madam Chairwoman:

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Assistant Secretary of Defense for Manpower and Reserve Affairs, Performing the Duties of the Under Secretary of Defense for Personnel and Readiness

Enclosure: As stated

cc:

The Honorable John Carter Ranking Member



4000 DEFENSE PENTAGON WASHINGTON, D.C. 20301-4000

AUG - 7 2019

The Honorable Adam Smith Chairman Committee on Armed Services U.S. House of Representatives Washington, DC 20515

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James N. Stewart

Assistant Secretary of Defense for Manpower and Reserve Affairs, Performing the Duties of the Under Secretary of Defense for Personnel and Readiness

Enclosure: As stated

cc:

The Honorable William M. "Mac" Thornberry Ranking Member

# **Report to Congressional Defense Committees**



# The Rhine Ordnance Barracks Energy Plan

**In Response To:** House Report 115–673, page 13, accompanying H.R. 5786, the Military Construction, Veterans Affairs, and Related Agencies Appropriations Bill, 2019

The estimated cost of this report or study for the Department of Defense is approximately \$12,000 in Fiscal Years 2018 - 2019. This includes \$8,000 in expenses and \$4,000 in DoD labor.

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# The Rhine Ordnance Barracks Medical Center Energy Plan

#### **EXECUTIVE SUMMARY**

This report is in response to House Report 115–673, page 13, accompanying H.R. 5786, the Military Construction, Veterans Affairs, and Related Agencies Appropriations Bill, 2019, which requests the Department provide a report on the energy requirements and plan supporting the Rhine Ordnance Barracks Medical Center (ROBMC). Specifically, by this report, the Director, Defense Health Agency (DHA) responds to requests for information on the specific changes in German energy law that affected the energy study; what U.S. sources of energy the new German energy laws incorporate; what U.S. sources are no longer able to be used in Germany; what effect the changes in law have on other Military Construction (MILCON) projects, construction costs, and current utilities contracts in the region; and what effect this delay may have on other aspects of the ROBMC; and responds to requests for an updated 1391 to include a Work In Progress (WIP) curve, the total amount of funding for the utility plant that is within the military construction program, and a list of other of appropriations, if any, that are being used for utility costs.

#### **BACKGROUND**

DHA is responsible for the facility life-cycle management of military medical treatment facilities worldwide, to preserve ready and resilient facilities that sustain military medicine's mission assurance of world-class health care for America's warfighters and their families. These facilities include medical centers, hospitals, ambulatory care centers, medical training facilities, medical research facilities, and veterinary facilities in the Military Health System.

DHA is the proponent for a medical center replacement project in Germany, known as the ROBMC, which is an incrementally-funded project, authorized in fiscal year (FY) 2013 at \$990 million. As a result of foreign currency fluctuations, the project was authorized at \$1.013 billion in FY 2018. This MILCON project requires funding of the utility plant at \$31.995 million.

On January 1, 2016, a German energy law went into effect. The law includes an Energy Saving Ordinance, which tightens energy efficiency requirements for new construction. In addition, the German Renewable Energies Heat Act requires a percentage of the energy to be from renewable energy sources. These laws do not specify a requirement to use U.S. energy sources, nor do they preclude the use of U.S. energy sources.

Compliance with the changes in law are the responsibility of the acquisition or technical lines of authority for energy contracting and procurement for Europe. These responsibilities reside with the U.S. Army and U.S. Air Force. Each authority is pursuing the best course of action for the requirements within Europe for each military installation to ensure the security of energy generation, power production, and distribution while ensuring the sustainment of critical operations during an energy supply disruption.

Through the United States Army Corps of Engineers (USACE), the contracted architect-engineer firm performed energy calculations which revealed at 20 percent design that the ROBMC energy plant would not meet the more stringent new requirements. The ROBMC energy plant design

was updated in 2017 to meet requirements of the new energy law. No further delays of the ROBMC resulting from German energy law are expected.

The selected design includes district heat, a combined heat and power unit (CHP), and chillers. This approach allows for a diversity of fuel sources for heat supply. The CHP will utilize natural gas. However, the large majority of heat will be provided by district heat, which is hot water generated off site by a utility provider and pumped to the ROBMC's main central utility plant. The district heat fuel source depends on two local energy providers, which includes both anthracite coal and bituminous coal, fuel oil, and natural gas. Electricity for ROBMC will be generated by two on-site sub-stations, both of which will be connected to the local/regional electricity grid.

The ROBMC MILCON project, authorized in FY 2013, includes 985,422 square feet of spaces, accommodating 68 beds, 9 operating rooms, and 120 exam rooms. It can serve 31,000 enrollees and 209,000 eligible beneficiaries across the U.S. European Command. The project sets the foundation for the next 70 years of military medical care in Europe, and is an enduring example of the Department's commitment to the European theater. The hospital is designed to meet both German and U.S. laws, as well as leadership in energy and environmental design requirements.

1. Component DEF (DHA)	FY 2018 MILITARY CONSTRUCTION PROJECT DATA  2. Date MAY 201				2. Date MAY 2017	
3. Installation and Loca	tion:	4	. Project Title:	\	3	
Rhine Ordnance Barracks, Germany		65	Medical Center Replacement, Increment 7			
5. Program Element	6. Category Code 7. Project Nu		Number	Tumber 8. Project Cost (\$000)		
87717DHA	51010	100	14043		106,70	0
	37	9. COST EST	MATES	75		
	Item		U/M	Quantity	Unit Cost	Cost (\$000)
Medical Clinic – CATC Administrative Facility Medical Warehouse – C Ambulance Garage – C Canopies (733 SM) Special Foundations (3' Service Basement (20,6' Parking Structures Central Utility Plant Helicopter Pad Communication Center Bridge and Road Impro Access Control Point F. World Class Design	al – CATCODE 51010 (33 CODE 55010 (36,659 SM) – CATCODE 51016 (12,4 CATCODE 53060 (9,070 S ATCODE 53071 (283 SM) 7,959 SM) 38 SM)  Alterations (Bldgs 711 & vements accility 1,2007, and Renewable Enerystems	455 SM) SM) f)	SF SF SF SF SF SF SP LS LS LS LS	356,091 394,594 134,061 97,631 3,045 7,890 408,587 222,146 1,642	449 446 365 315 296 297 17 189 19,375	654,662 (159,887) (176,030) (48,864) (30,779) (902) (2,340) (6,927) (41,946) (31,814) (50,095) (645) (1,642) (10,284) (23,992) (9,368) (19,551) (21,588) (18,008)
	Vater Distribution and Gutters 847) Demo (5,774) station CID, DDC and Enhanced (	Commissionin	LS L			204,503 (62,992) (18,716) (3,329) (14,801) (26,228) (32,621) (5,167) (9,914) (16,019) (14,716)
CATEGORY E EQUIP TOTAL REQUEST TOTAL REQUEST (RO PREVIOUS APPROPR CURRENT APPROPRIA FUTURE APPROPRIA	CENT (5.00%)  ECTION & OVERHEAD ( MENT  OUNDED)  LIATIONS  LIATION REQUEST (UNR	ROUNDED)				859,165 42,958 902,123 58,638 29,262 990,023 990,000 586,711 106,700 293,964 (177,753)

1. Component DEF (DHA)	FY 2018 MILITARY CONSTRUCTION PROJECT DATA			2. Date MAY 2017		
Installation and Loca     Rhine Ordnance Bar     Germany			4. Project Title:  Medical Center Replacement, Increment 7			
5. Program Element 87717DHA	6. Category Code 51010	7. Project Number 14043	POLICE MANAGEMENT	Project Cost (\$000) 106,700		

#### 10. Description of Proposed Construction:

Fund the seventh increment of a multi-story Medical Center to replace the Landstuhl Regional Medical Description of Center and the 86th Medical Group (MDG) Clinic. The Hospital will provide inpatient services with contingency expansion, outpatient and specialty care clinics, Aero Medical Staging Facility (ASF), support functions, medical Proposed administration, and sub-basement zones. Ancillary facilities include ambulance garage, parking garage, central energy plant, helicopter pad, and road improvements. Supporting facilities include: contingency utilities and laydown area, site improvements, surface parking, access roads, Communications Building alteration, bridge and road improvements, access control point facilities, demolition and site clearance of former ordnance storage area and environmental protection and mitigation. The existing Landstuhl Regional Medical Center and the existing 86th MDG facilities will be returned to respective installations for other uses except for Blood Donor Center, contingency and bulk storage logistics will remain on Landstuhl. The project will be designed in accordance with the criteria prescribed in Unified Facilities Criteria UFC 4-510-01, DoD Minimum Antiterrorism Standards for Buildings UFC 4-010-01, barrier-free design in accordance with DoD, "ABA (Architectural Barriers Act) Accessibility Standard" and DEPSECDEF Memorandum "Access for People with Disabilities" dated 10/31/2008. Evidence Based Design principles, MHS World Class Checklist Requirements. Executive Order 13514, DoD Strategic Sustainability Performance Plan (SSPP), the Energy Policy Act of 2005 (EAPct05), and in accordance with the host nation Status of Forces Agreement (SOFA). The project will be LEED Healthcare Silver certifiable. Operation and Maintenance Manuals, Design During Construction, Enhanced Commissioning, and Comprehensive Interior Design will be provided.

REQ: 1,119,799 SF ADQT: 69,180 SF SUBSTD: 819,908 SF

#### PROJECT:

Construct a replacement Medical Center incorporating an 86th MDG Clinic replacement at Rhine Ordnance Barracks, Germany. (CURRENT MISSION)

#### REQUIREMENT:

A replacement Medical Center is required to provide direct medical services to 53,000 enrolled beneficiaries and tertiary referral support for more than 245,000 beneficiaries throughout EUCOM as well as contingency casualty evacuation support for up to an additional 250,000 soldiers, airmen & sailors deployed throughout the regions comprising the Areas of Responsibility (AOR) of EUCOM, CENTCOM and AFRICOM.

The mission requires the provision of medical, surgical, and intensive care services, as well as primary and specialty care, emergency/trauma care, dental services and medical proficiency training simulation capability. The current Medical Center provides the only DoD inpatient psychiatric, pediatric specialty care, and substance abuse rehabilitation unit in Europe.

Of equal - and in contingencies - greater importance, the mission requires that it serve as the primary medical facility for the evacuation hub for U.S. service members stationed throughout the EUCOM, CENTCOM and AFRICOM AORs. The medical facility must be strategically located in the immediate vicinity of Ramstein Air Base, to minimize travel times from the flight line to the facility and, therefore, the risks to air evacuated wounded and ill warriors. In support of the contingency mission, the existing Medical Center treats an average of 8,000 aero medical evacuation patients per year including 15% battle-related casualties.

#### CURRENT SITUATION:

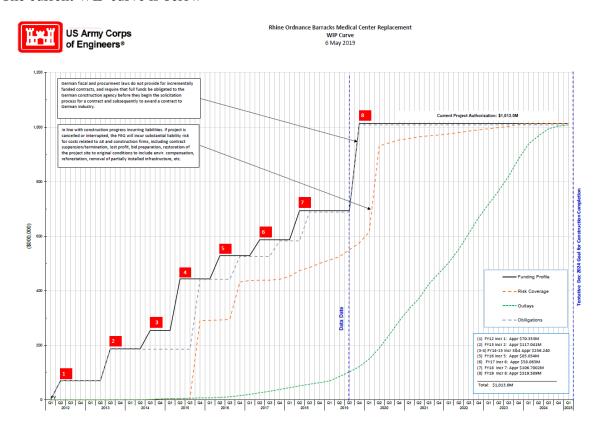
The existing Medical Center is located approximately 13 km (8 miles) from Ramstein Air Base. Most of the route is on an unsecured civilian autobahn and public roads. The total time required to transport critically wounded troops from the airfield to treatment currently varies from 20 to 45 minutes depending on traffic and weather conditions. The existing

1. Component DEF (DHA)	EV 7018 MILITARY CONSTRUCTION PROJECT DATA			<ol> <li>Date MAY 2017</li> </ol>	
3. Installation and Local	tion:	4. Project Tit	le:		
Rhine Ordnance Barracks, Germany		Medical C	Medical Center Replacement, Increment 7		
5. Program Element	6. Category Code	7. Project Number	8. Project Cost (\$000) 14043 106,700		
87717DHA	51010	14043			
CURRENT SITUATIO		nment "finger" buildings bu	- 7 - m	Laterage of the property of	
training, and the dental central circulation corricorridors and hallways, for patient and staff safe privacy, and excessive the building systems, building systems, building sustain, restore, and mocantonment buildings at The 86th Medical Group and code deficiencies existed throughout the numerous load bearing the heating, ventilating and congested area of Rams	clinic are located in buildidor are more than 50 years and is not capable of suppirty related to lack of single ravel distances between cong integrity and code cong in multiple aging facilities in these 50+ year old; point in these 50+ year old; in the semain clinic structure and walls, making renovation conditioning systems (HV tein AB and does not compress in inadequate space	preventive medicine, logistings external to the medical sold. The current layout is sold. The current layout is sold in the medical prace patient rooms, undersized limical activities. The buildingliance.  In decommunication has exceed the communication of the communication of the clinic does not have spot the space unfeasible. The JAC prequired to meet DoD the close to meeting the force to add to and renovate the extension of the contract of the close to meeting the force to add to and renovate the extension of the contract of the contr	center. The multiple "fininefficient, covers almost ctices. The current condit operating rooms, infectiongs have significant deficiency and the central spine. The floodular structures. Serious instruction, to include barrows in the central spine of the central spine in the central spine. The floodular structures. Serious instruction, to include barrows in the central spine of the central spine of the central spine. The permanent is limited floor to floor he central. The MDG camp is protection requirements	ger" buildings and 3.5 miles of ions pose concerns on control, patient ciencies related to e and is costly to ors in many of the life safety criteria boo plaster substrate facilities have light prohibits norma ous is located in a for setbacks from	
have exceeded their use beneficiaries, the other I Areas of Responsibility life safety standards wil in this project will perpe up cantonment building JOINT USE CERTIFIC	and their family members ful life and are currently i beneficiaries in Europe an will continue in an inaded I only be met on the marg etuate a host of problems to s, presenting a real and in ATION: Health Agency, Facilities I	will be provided in ineffici n very poor condition. According the deployed warriors in juste environment. Life sup- ins; and patient flow will or that put at risk the safety of creasing possibility of a cat Division has reviewed this p	ordingly, health care for the EUCOM, CENTCOM port systems will be computing to be dysfunction both patients and staff, it astrophic facility-related	he enrolled I and AFRICOM promised; fire and al. Failure to invest cluding: the shored failure.	
12. Supplemental Data	8				
A. Design Data (Estima	ited):				
(1) Status:					
(a) Design Star			NOV	2010	
	Design Completed as of JA			20%	
	% (of Medical Center) De		ASSISTA	2017	
2 6	ledical Center) Design Co	mpletion Date	JUN	2019	
(e) Parametric I	Estimate (Yes or No) N				

3. Installation and Loca		ARY CONSTRUCTION P		MAY 2017	
	3. Installation and Location:		E;		
Rhine Ordnance Barracks, Germany		Medical Ce	Medical Center Replacement, Increment 7		
5. Program Element	6. Category Code	7. Project Number	8. Project Cost (\$000)	ect Cost (\$000)	
87717DHA	51010	14043		106,700	
Supplemental Data (C	ontinued):	73:	<u>\$6</u>		
2. Desi, 3. Site. 4. Host (g) Energy Stu  (2) Basis: (a) Standard of (b) Where Desi (3) Total Design ( (a) Production (b) All Other I (c) Total Design (d) Contract (e) In-house  (4) Construction (	gn Build (YES/NO) N gn, Bid-Build (YES/NO) Adapt (YES/NO) N Nation Partnering Method idies & Life Cycle Analysis  r Definitive Design - (YES/ ign Was Most Recently Use Cost (c)=(a)+(b) OR (d)+(e) of Plans and Specifications Design Cost gn Cost Contract Award Date	Y S Performed (Yes or No) Y NO) N ed N/A ):	Cost (\$00) 50,50 63,51 114,00 97,00 17,00 MAR 201	00 00 00 00 00 00	
(5) Construction S (6) Construction (			DEC 2013 MAY 2023		
		vill be provided from other a			
		Fiscal Year			
Equipment	Procuring	Appropriated	Cost		
Nomenclature	Appropriation	Or Requested	(\$000)		
Expense	OM	2018	2,500		
	OM	2019	2,500		
Expense	OM	2020	42,500		
Contract to the contract of th		2021	2,500		
Expense	OM	2021			
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Expense Expense Expense	7/0C/7/05	Contract and Contr	27,500 10,000		
Expense Expense Expense Expense	OM	2022			
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Expense Expense Expense Expense Investment Expense	OM OP OM	2022 2022 2023	10,000 42,500		

1. Component DEF (DHA)	FY 2018 MILITARY CONSTRUCTION PROJECT DATA  2. Date MAY 201			2. Date MAY 2017	
3. Installation and Locat	tion: 4. Project Title:			*****	
Rhine Ordnance Ban Germany	racks,	Medical (	Medical Center Replacement, Increment 7		
5. Program Element	6. Category Code	7. Project Number	8. Project Cost (\$00	00)	
87717DHA	51010	14043	100	6,700	
Supplemental Data (Cor	ntinued):		\$ P		
D. FUNDING PROFI	ILE:				
Authorization		\$990,000,000			
Appropriations					
2012 2013		\$ 70,333,000			
2014		\$117,041,000 \$66,545,000			
2015		\$189,695,000			
2016		\$ 85,034,000			
2017 2018		\$ 58,063,000 \$106,700,000			
2019		\$293,964,000			
		\$987,375,000			
Chief, Design, Construc Phone Number: 703-27:	ction & Activation Office: 5-6077				

#### The current WIP curve is below



A governance structure has been established to ensure accountability, timely decision-making, and issue resolution, including a Senior Executive Review Group, with senior representatives from DHA Facilities Enterprise, USACE, U.S. Army's Health Facilities Planning Agency, and medical leadership.

During the facility life-cycle, ROBMC's utility costs will be paid through the Defense Health Plan appropriations in Budget Activity Group 7, supporting the costs of the contract negotiated with the German Government. The estimated costs of future utilities are not available.

In April 2019, Members of Congress requested that the Department and USACE reconsider plans for the co-generation plant at ROBMC and requested a certification of ROBMC's compliance with section 2811 of the John S. McCain National Defense Authorization Act for FY 2019, regarding the use of diverse energy sources. The Department provided that certification in a letter dated April 15, 2019, noting that energy sourcing for ROBMCR is not solely natural gas. The energy plan includes two separate feeds, multi-sourced fuel for heating hot water, and the combined heat and power co-generation unit to increase energy resilience.

## CONCLUSION

The ROBMC project is vital to the readiness of military and medical forces throughout Europe and the world. The project designers and construction agents have selected a diverse energy plan for the medical center which does not solely rely on natural gas, or any other energy source, but does provide a stable, resilient energy supply to support health care in the European theater at all times.