

Richards, Edward, Mr, DoD OGC

From: Durepo, Timothy LT COL MNF-I Slayer
Sent: Tuesday, March 18, 2008 4:20 AM
To: VollmeckeK [REDACTED]
Cc: Michael Milner - MMCS; TaylorS [REDACTED]; Blackerby, Kathryn C; Thomas, Nancy
Subject: GS11 MNF-I Slayer; BenjaminT [REDACTED]
FW: KBR RPC Brief

Attachments: Document.pdf



Document.pdf

Sir,

Attached is the brief that you handed me yesterday on the RPC LHS Issues. Since you handed me your only copy, I scanned and am sending for your files.

V/R,

Timothy L. Durepo
Lt Col, USAF
Commander, DCMA - Southern Iraq
BUS: [REDACTED]
DSN: [REDACTED]
IRAQNA: [REDACTED]
timothy.durepo [REDACTED]

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-----Original Message-----

From: TIM DUREPO [mailto:timothy.durepo [REDACTED]]
Sent: Tuesday, March 18, 2008 11:11 AM
To: Durepo, Timothy LT COL MNF-I Slayer
Subject:

Radwaniyah Palace Complex Life Health And Safety Issues

Background:

- In March 2007 KBR conducted technical inspections (TI) on 229 structures in order to accurately assess current conditions before assuming operations and maintenance. The 229 structures consisted of the following:
 - 183 Hard Stand buildings,
 - 19 Portable Shower/Latrine units
 - 27 other Portable Office/ Billeting structures.
- All deficiencies were noted and turned over to the customer with recommendations for repairs.
- In January, 2008 TI's were again performed on the same structures as directed by LOTD KBR-08-139X-D9-1008.
 - TI's were given to DCMA as well as the RPC customer on January 25, 2008
 - The technical inspections identified hazardous issues in each category to include Electrical systems, Plumbing systems and HVAC systems
- The areas largely identified in these inspections as well as during daily routine Service calls include:
 - Faulty or non existent electrical grounding systems
 - Faulty power distribution systems
 - Failing and faulty plumbing systems including Waste Water distribution systems and Potable water delivery systems (aging galvanized piping as well as rapid failure of aging and existing pumps that have been in place for at least 20+ years)

*Idag Facility
Identifications*



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Radwaniyah Palace Complex Life Health And Safety Issues

- Through a proactive approach over the last 60+ days KBR has identified and corrected many deficiencies through the SOR process however, many deficiencies exceed the SOR threshold under level "B" maintenance. Those items have been identified to the Camp Mayor.
- Corrective action has taken place in several areas primarily in the electrical field including proper grounding of equipment such as Water Pumps, Water heaters and HVAC systems.
- A majority of the electrical systems within the Hard Stand structures are in complete disarray including a lack of grounding system within the distribution network. 95% of the electrical distribution panels are at least 20+ years old and were not maintained properly as well as not installed following any typical standard building code. A majority of the Exterior Electrical Panels, Sub Panels, Main Distribution Panels are in disrepair and require replacement at this time. All of the 11 current Electrical Substations that house equipment for the High Voltage and the Medium Voltage system are outdated and in disrepair. KBR has the direction to upgrade the Low Voltage side of the Sub Stations and we are working on the scheduling of that project. **ACL-07-139-D9-005**

TYPICAL FAILURE OF A WATER HEATER THERMOSTAT SHORTED THE BREAKER WHICH DID NOT TRIP CAUSING THE PIPING SYSTEM TO BE ENERGIZED WITH 120 VOLTS OF ELECTRICITY FOR IMMEDIATE REPLACEMENT OF THE WATER HEATER ELECTRICAL PANEL AND BREAKERS.

TYPICAL PLACEMENT OF DISTRIBUTION CABLE ON R/C KID REFLAG CEMENT CABLE WITH THE APPROXIMATE BURIED THE CABLE UNDER SIDEWALK.

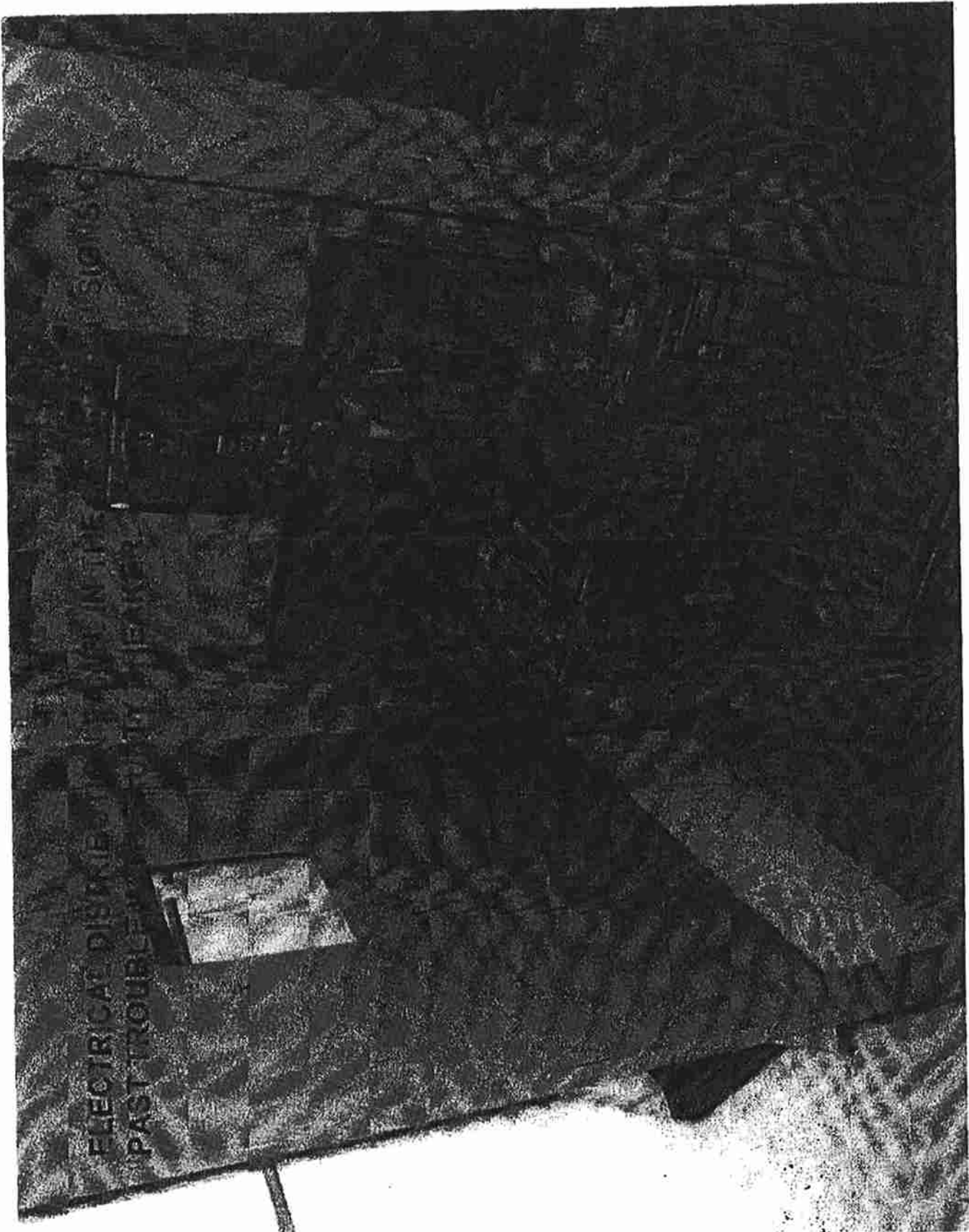
EXTERIOR PANEL, NO GROUND FOR WATER HEATER OR WATER PUMP BREAKERS OVERSIZED BREAKERS IN THE PANEL

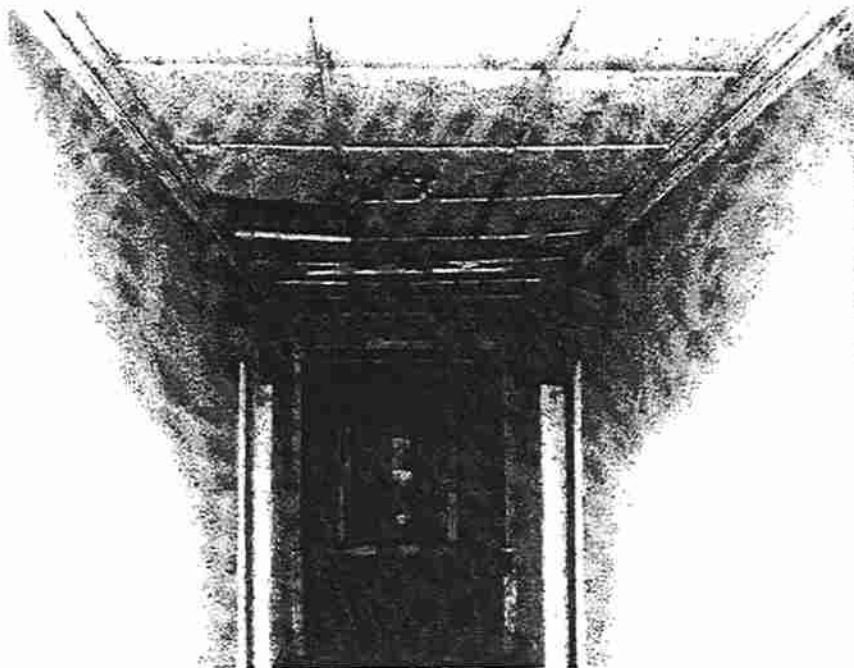
DISTRIBUTION AND INSTALLATION WHICH

Radwaniyah Palace Complex Life Health And Safety Issues

- Items addressed and repaired or replaced since the last Technical Inspection includes but not limited to the following:
- 178 Middle Eastern style Water Heaters were identified during both Technical Inspections. This style of Water Heater has proven to be defective in most cases and fail at a rapid rate. To date 72 Water Heaters have been replaced with US style Water Heaters. When new water heaters are installed each unit is separately grounded for additional protection. The defective Water Heaters are known to short out due to faulty design or age and have been known to energize the galvanized water lines that service various Hard Structures. Another preventive measure has been put into place by grounding the piping systems as well. The Water Heaters are being replaced at the direction of the Mayor in regards to priority or at the time of failure.
- 190 Water Distribution Pumps are on site at this time. Water distribution pumps have been found to be defective or failing due to age of the units. 45 pumps have been replaced over the past 60 days due to malfunction which a majority were due to electrical shorts or age. We have grounded 87 pumps to date and is an ongoing project directed by the Mayor in regards to priority or changed and grounded at the time of failure.
- Additional grounding is installed throughout the camp as work is completed through various service orders.
- 100+ Electrical receptacles have been replaced due to malfunction.
- 150+ Electrical light switches have been replaced due to malfunction.
- 80+ Light fixtures have been replaced due to malfunction mainly ballasts. Some light fixtures were at least 30 years old and have proved to be substandard.
- Rewired and replaced Water Heaters in the LSF Compound, Buildings 1, 5 & 6.

ACL- KBR-08-139x-D9-1001

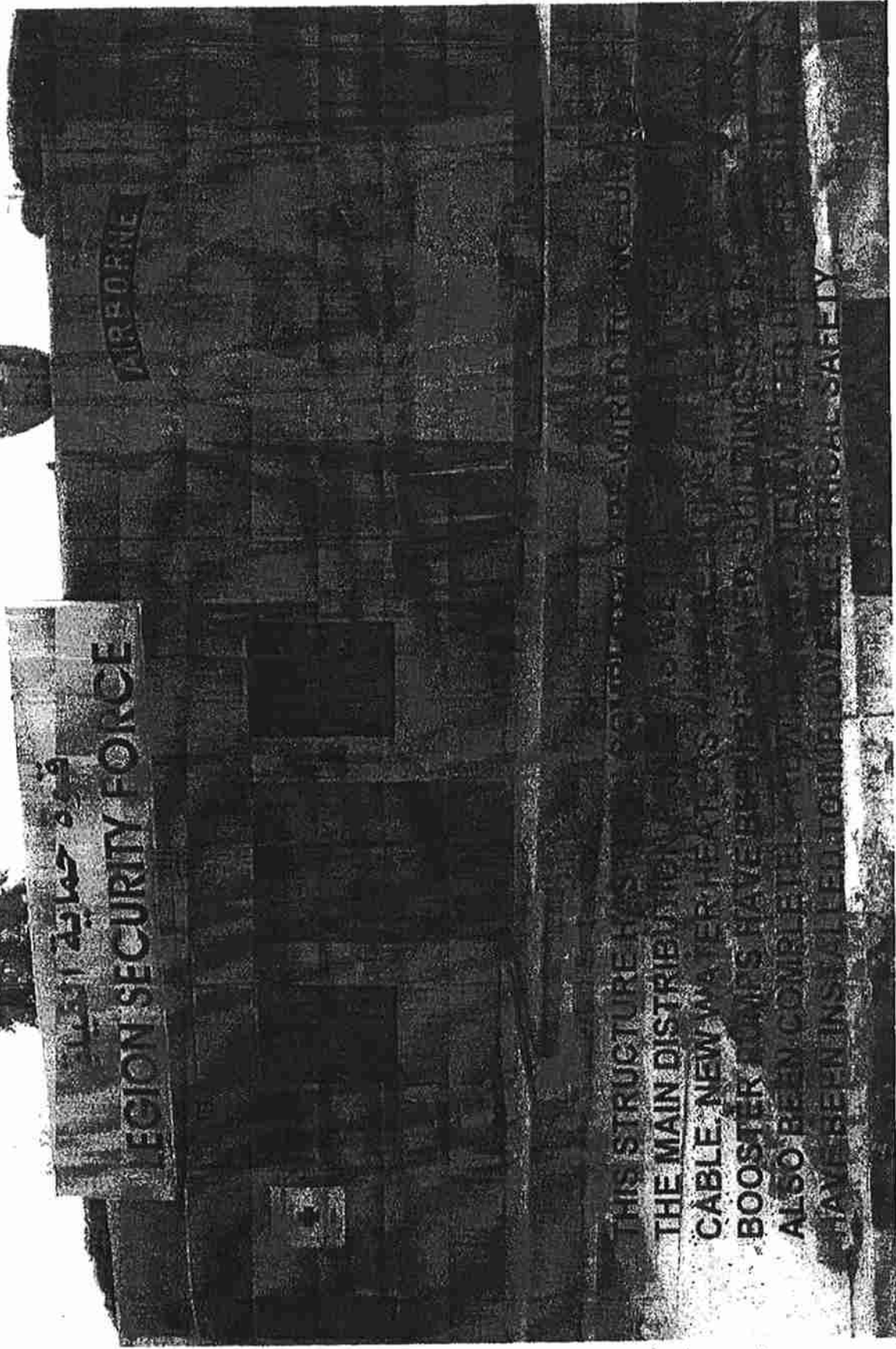




- **Two fires within the last 4 months due to faulty electrical systems**
At this time there has been no formal request from the customer to repair either facility.
Loss of approximately 150 Bed Spaces



LSF COMPOUND BUILDING 1



THIS STRUCTURE HAS BEEN IDENTIFIED AS THE MAIN DISTRIBUTION POINT FOR THE CABLE. NEW WATER HEATERS AND BOOSTER PUMPS HAVE BEEN INSTALLED. ALSO BEEN COMPLETELY REPAIRED. HAVE BEEN INSULATED TO IMPROVE ENERGY SAFETY.

Radwaniyah Palace Complex Life Health And Safety Issues

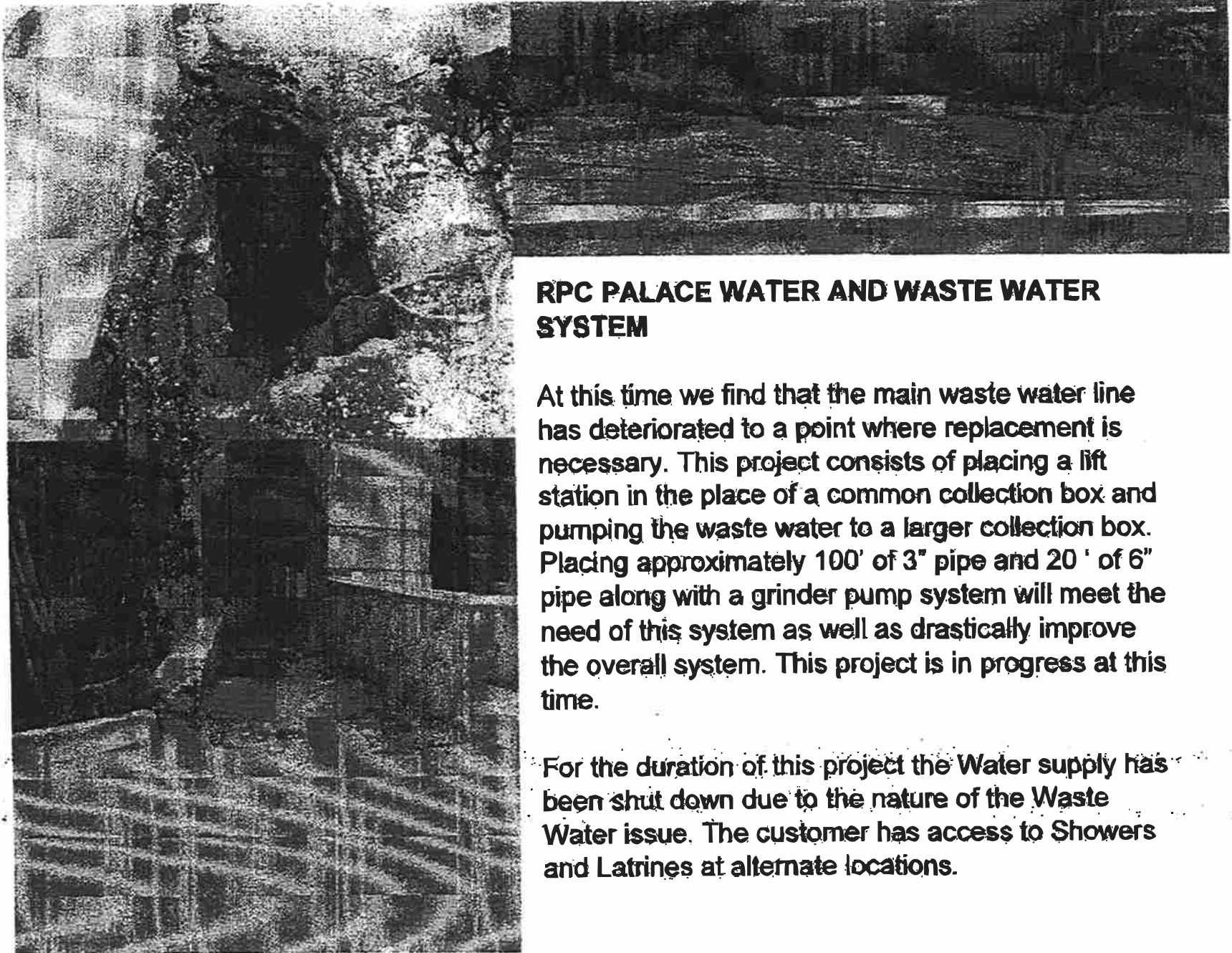
- KBR Site Managements approach to deficiencies: Once a problem is identified Site Management surveys the location and issues an electronic report to the RPC Mayor. This report consists of photographs and a summary of findings. Repairs that can be made under an SOR are immediately completed. Issues that will require additional funding are awaiting documentation from the RPC mayor. A majority of the findings will require additional funding to complete the work. Example: Typically when an electrical panel is discovered to be unsafe the entire structure needs a complete overhaul in regards to the electrical system. This type of project exceeds an SOR limitation.
- Service orders in the Electrical field have increased over the last two months by 125%, 638 service orders were processed and completed within the last 60 days.
- Service orders in the Plumbing filed have increased over the last two months by 79%, 617 service orders were processed and completed within the last 60 days.



USED
DATE

NOT BEEN
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RPC PALACE WATER AND WASTE WATER SYSTEM

At this time we find that the main waste water line has deteriorated to a point where replacement is necessary. This project consists of placing a lift station in the place of a common collection box and pumping the waste water to a larger collection box. Placing approximately 100' of 3" pipe and 20 ' of 6" pipe along with a grinder pump system will meet the need of this system as well as drastically improve the overall system. This project is in progress at this time.

For the duration of this project the Water supply has been shut down due to the nature of the Waste Water issue. The customer has access to Showers and Latrines at alternate locations.

Radwaniyah Palace Complex

Life Health And Safety Issues

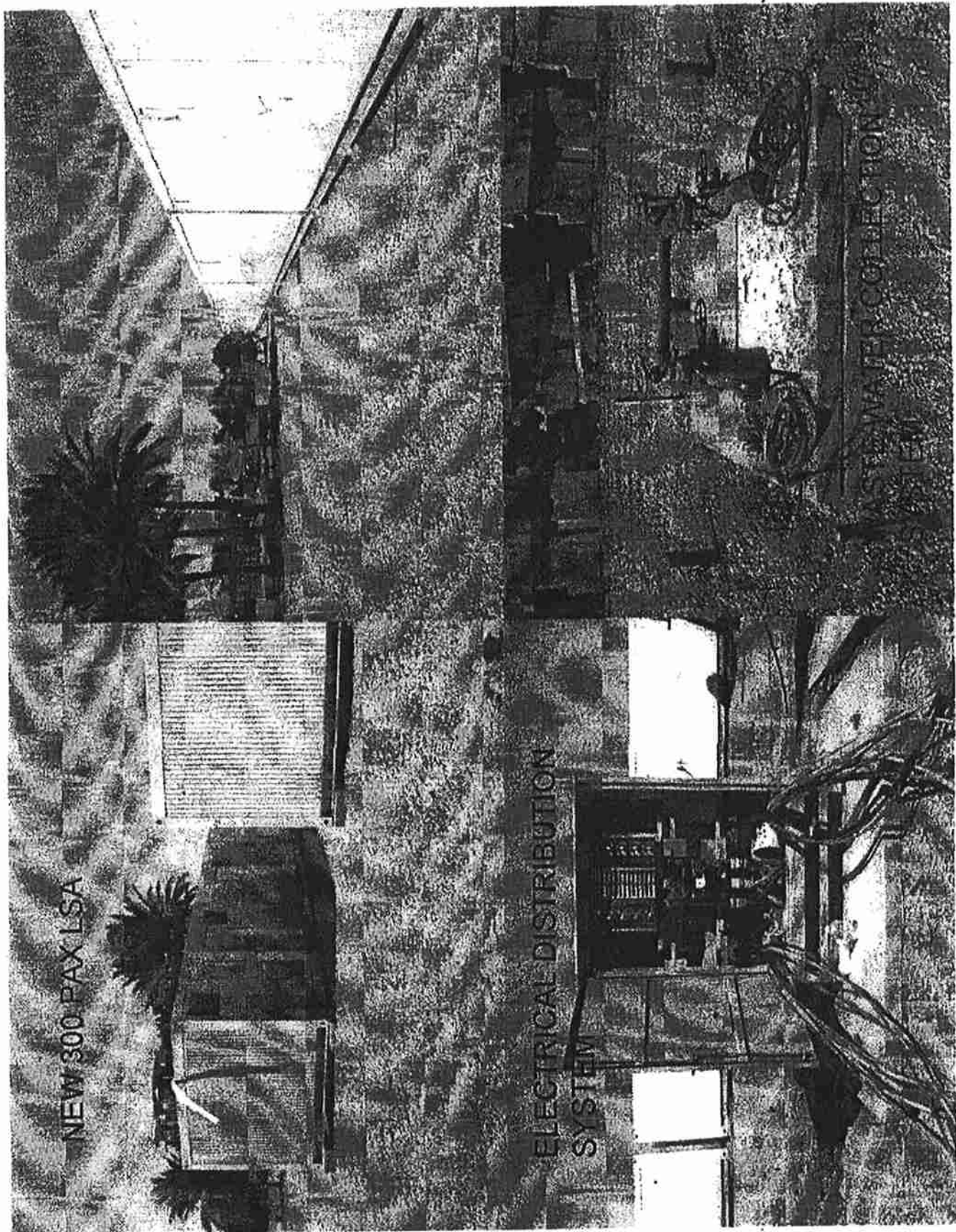
ROAD AHEAD

Construction of a new 300 PAX LSA is well underway and expected to be complete within the next 30-45 days. Beneficial occupancy for 20 of the CHU's only are possible within the next 10 days. *The Showers and Latrines will be slightly delayed due to time needed to cure the concrete pad for the Potable Water Tanks.

Once the LSA is complete the customer can begin to move individuals into the LSA and close the existing Hard Structures until proper renovations can be completed. According to the Group XO the exact number of Hard Stand structures that will be vacated is unknown at this time however the estimated number will be somewhere around 35.

There has been discussion concerning renovating some of the more viable structures in the near future for both billeting and office space.

A solid building numbering system is being completed by the customer so that identification of trouble spots can be repaired with greater ease. There are multiple structures within RPC that have the same numbers.



Radwaniyah Palace Complex Life Health And Safety Issues SUMMARY

- During the course of the last 12 months several areas of concern have been addressed with the customer and client as to the condition of all areas at RPC.
- During the last 60 days vast improvements have taken place in regards to the Electrical distribution systems in some areas. This includes grounding, replacing improper breakers, installing GFCI circuits in needed areas. This is a monumental undertaking under Level B Services however we have been successful in making some areas safer for our customer. A staggering amount of work remains and is being addressed by priority from the customer. All items that will require additional direction and funding is also being addressed.
- We have made great strides in improving the quality and safety of the Water Distribution systems. Replacing and grounding dangerous and defective water pumps has been on the High Priority list for the customer as well as replacing Water Heaters. This is also a monumental task and is being tracked by the RPC Mayor on a daily basis.
- We continue to meet and address these issues on a daily basis and attempt to find ways to resolve any issues that are in the best interest of our customer.