



Children's Hospital



EMERGENCY PREPAREDNESS

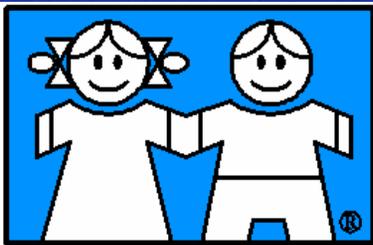
SURVIVING THE PERFECT STORM

&

LESSONS LEARNED



Speaker Name
Brian Landry
August 6



CHILDREN'S
HOSPITAL

50 Years of Healing,
One Child at a Time

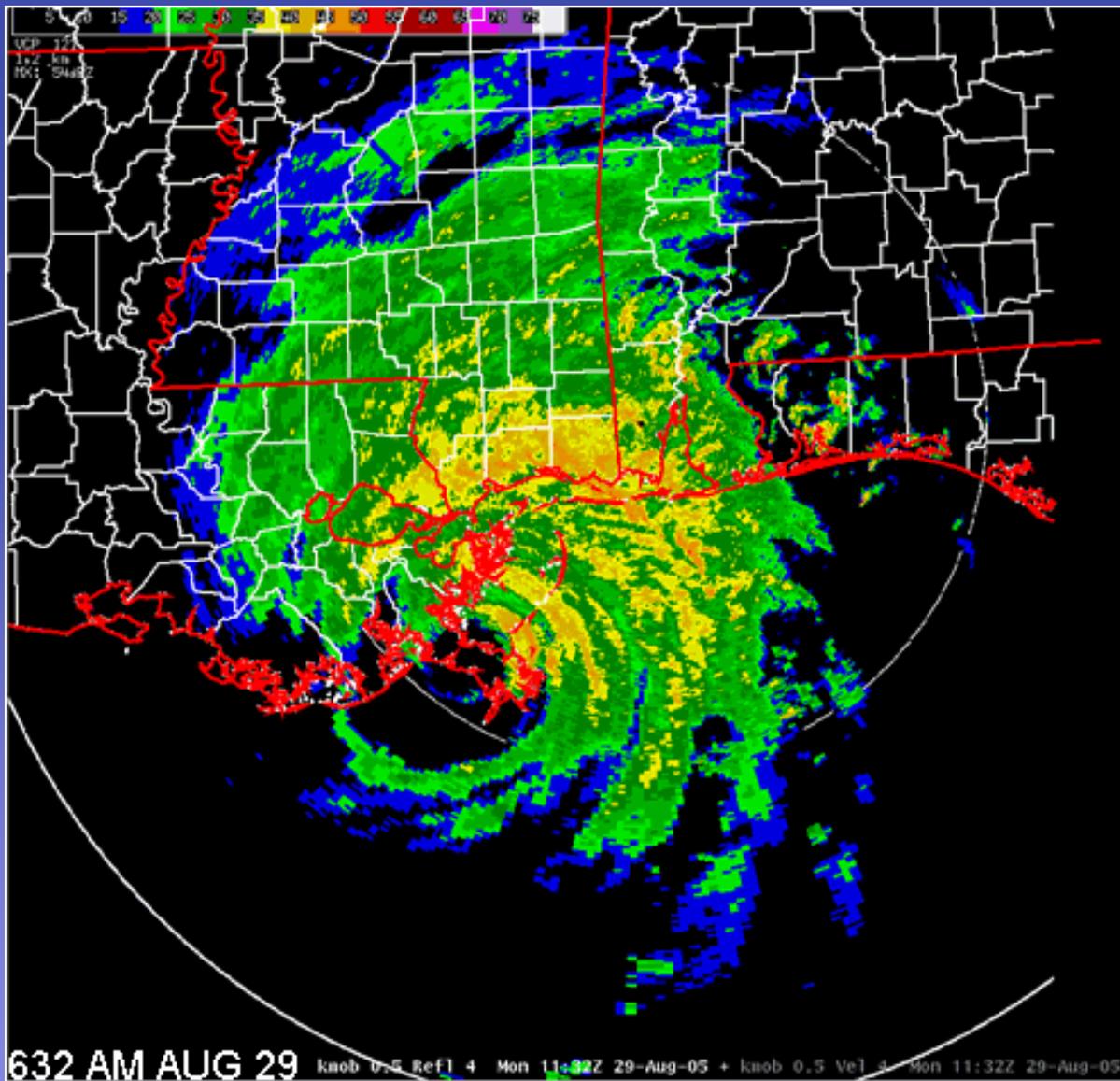


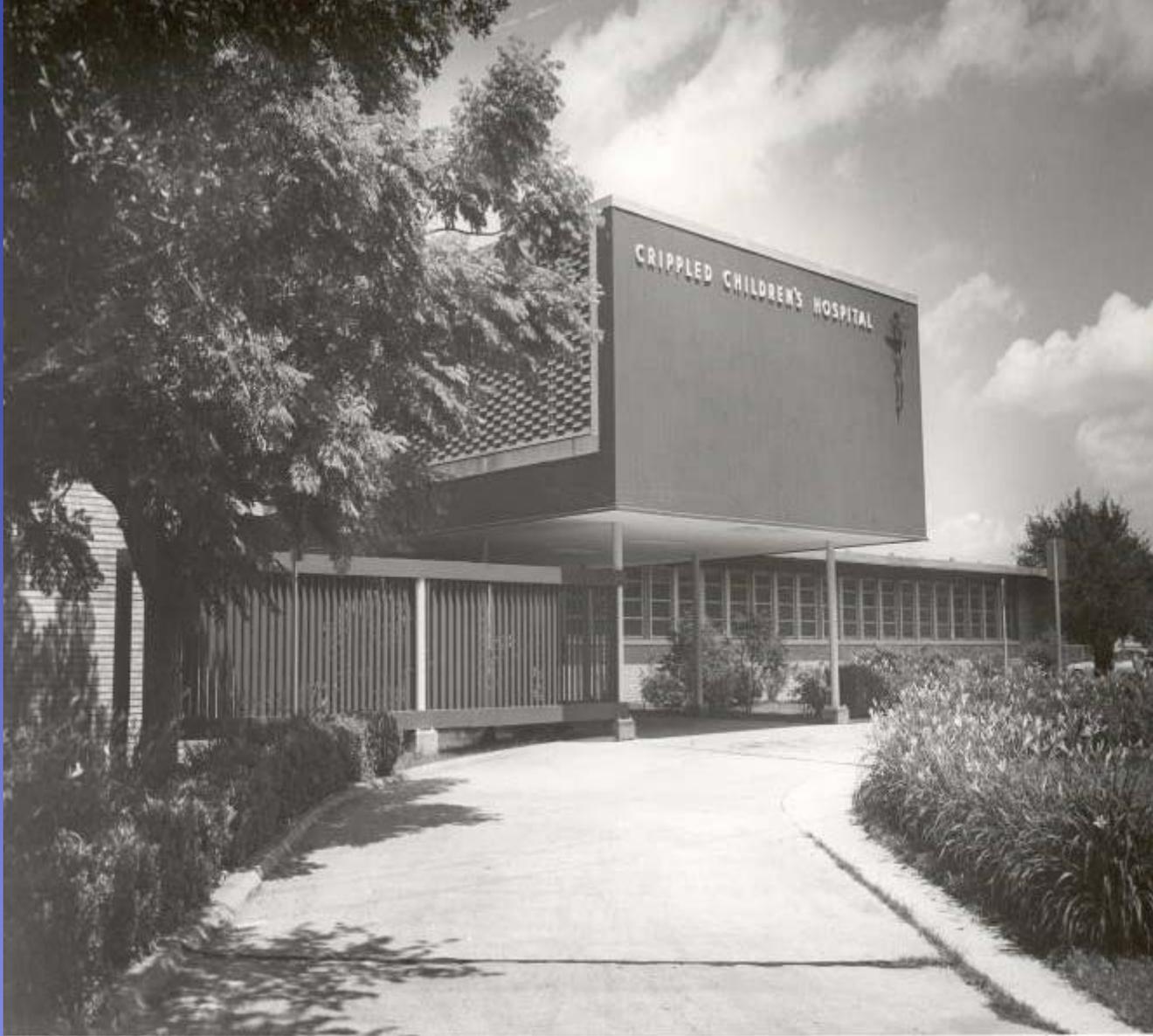
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New Orleans

August 5-8







CHILDREN'S HOSPITAL - 2007

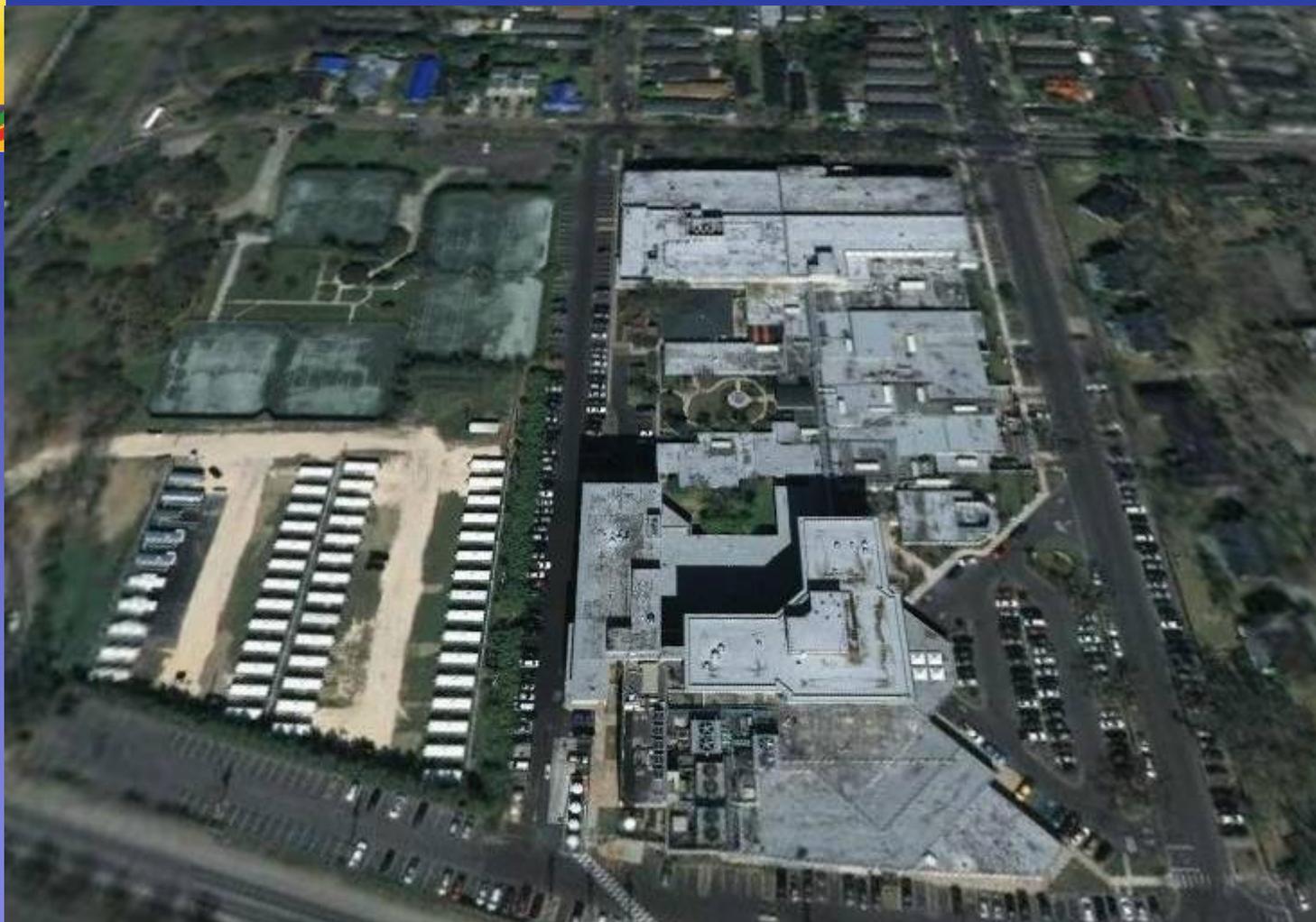


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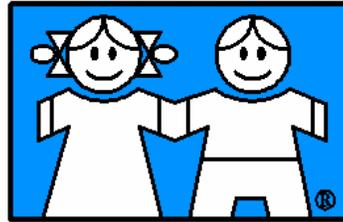


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CURRENT CAMPUS



TODAY



CHILDREN'S
HOSPITAL

*50 Years of Healing,
One Child at a Time*



HURRICANE KATRINA

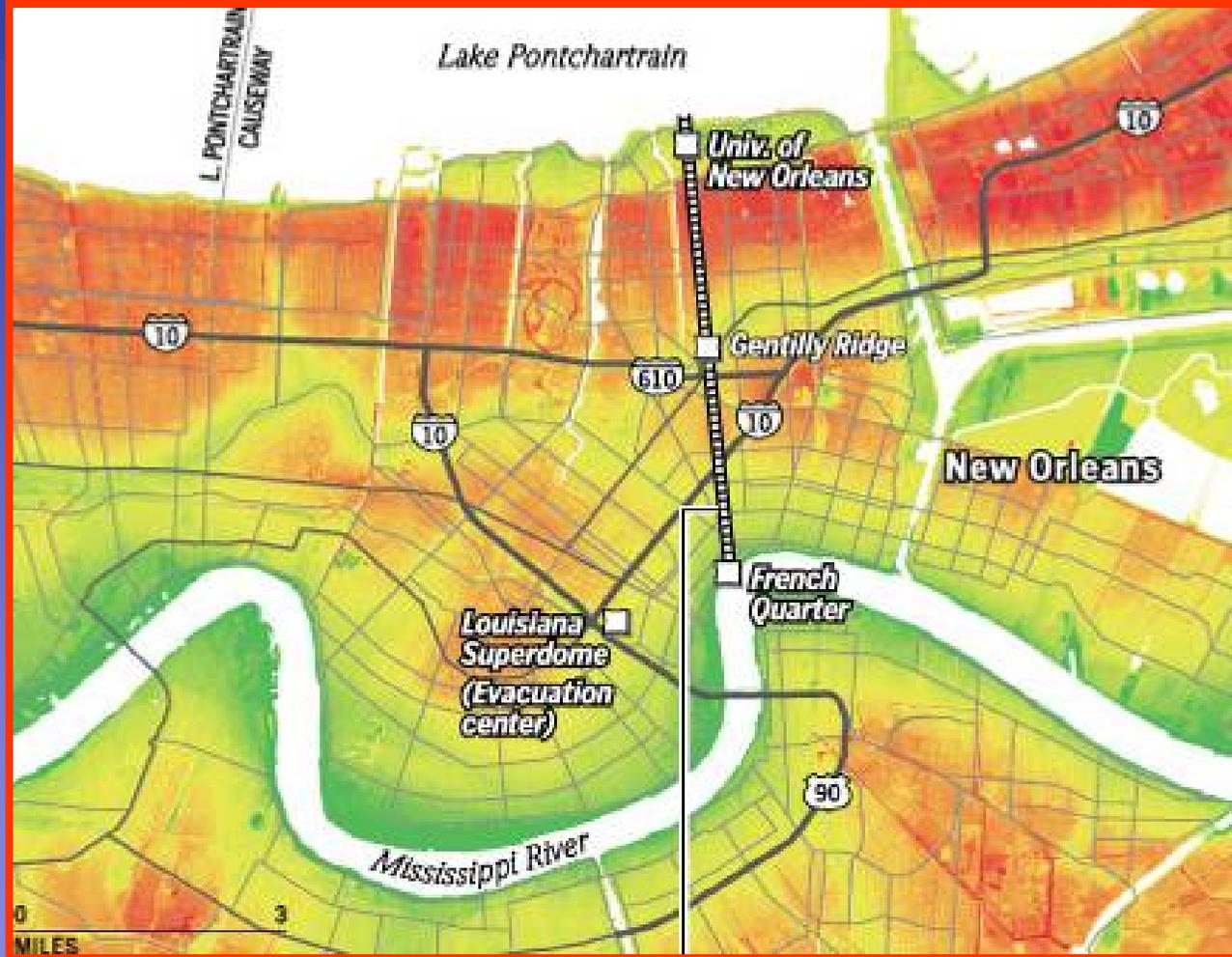


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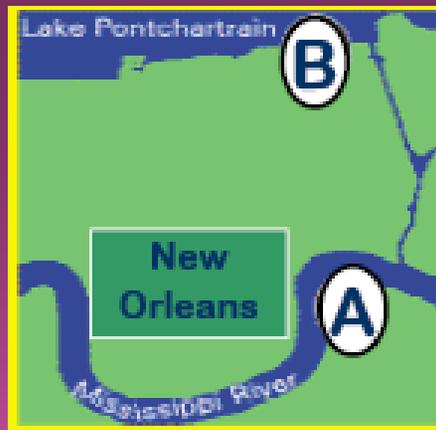


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Hurricane Katrina

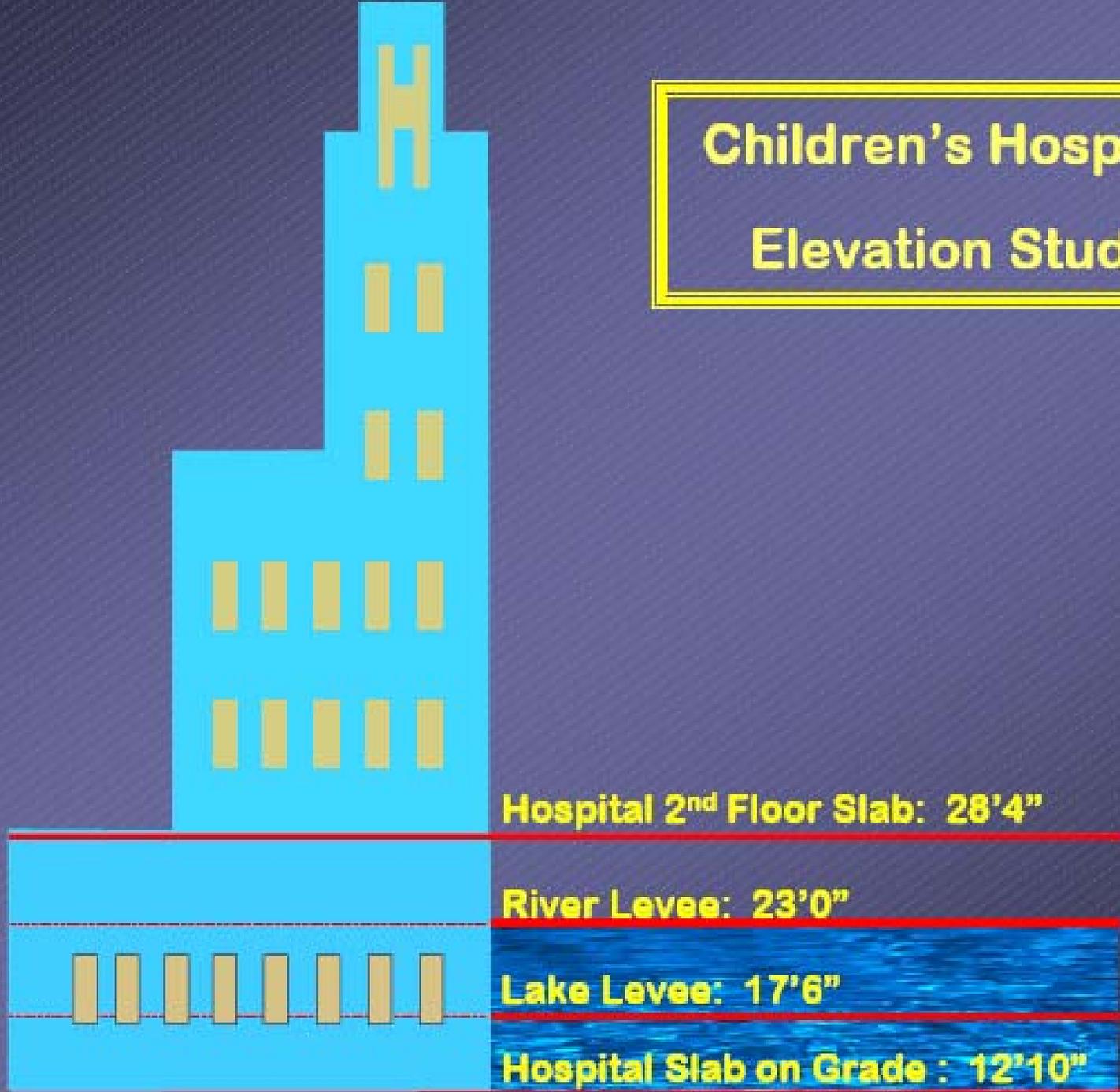


New Orleans Ground Elevations



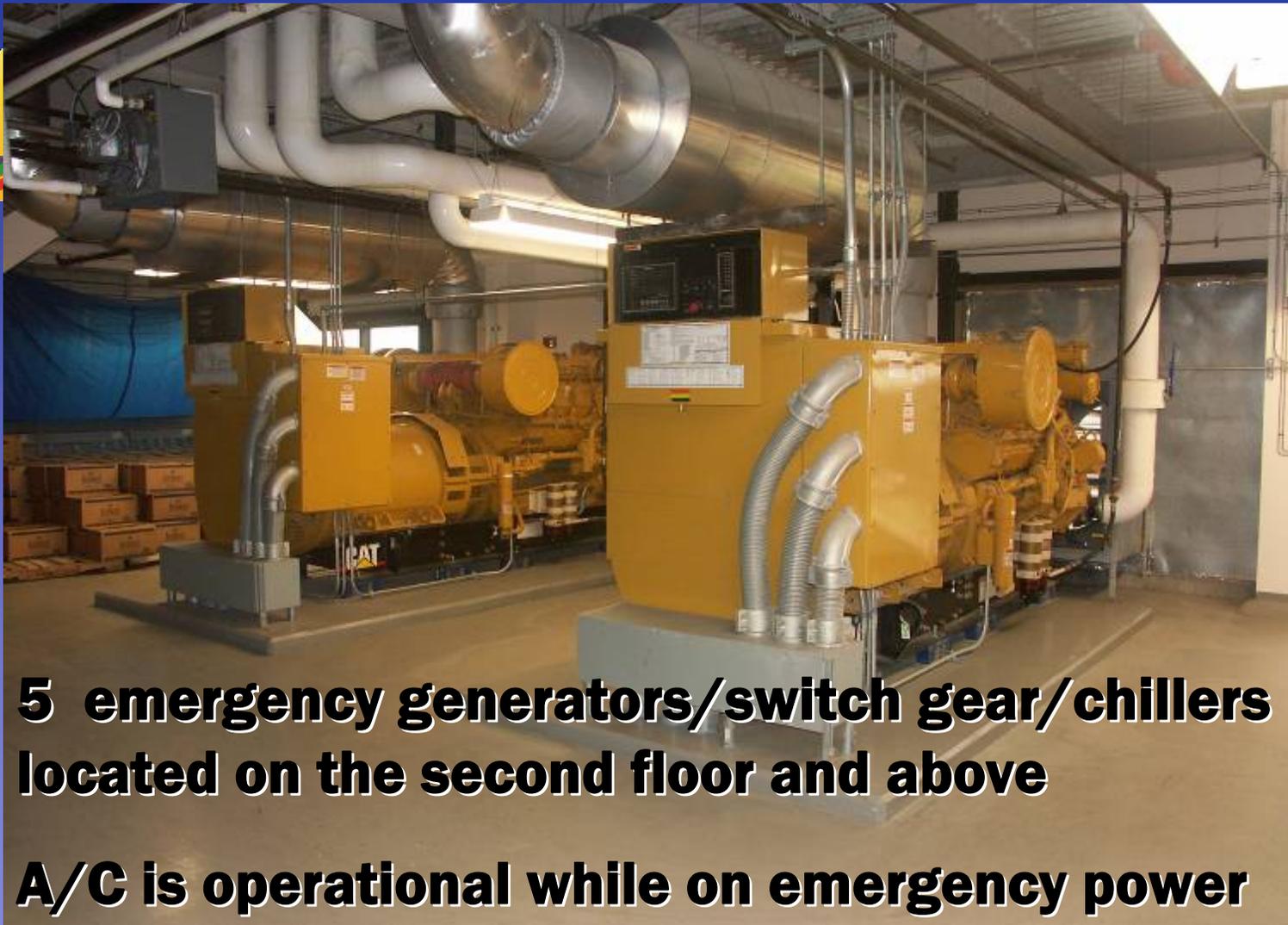


Children's Hospital Elevation Study





**PREPARING FOR
THE PERFECT
STORM**



5 emergency generators/switch gear/chillers located on the second floor and above

A/C is operational while on emergency power



A/C chillers are located on second floor



**Underground tanks hold 70,000 gallons of diesel fuel
Can operate generators with A/C for more than three weeks.**



Computer Services located on second floor
Secondary phone system on second floor



CODE GRAY

- **PURPOSE:** To prepare for the event of a hurricane, floods, tornadoes or other natural weather situations that may affect the operation of the hospital.





Emergency Management Plan

- EM-1 Emergency Management Plan (08/05)
- EM-2 Incident Command Structure (07/05)
- EM-3 Command Center (12/05)
- EM-4 Hazard Vulnerability Analysis (01/02)
- EM-5 Communications (01/03)
- EM-6 Security (01/03)
- EM-7 Disaster Supplies and Equipment (12/03)
- EM-8 Employee Pool (07/06)
- EM-9 Medical Staff Assignments (01/03)
- EM-10 Disaster Triage and Admissions (01/03)
- EM-11 Disruption of Utilities and Facility Systems (12/05)
- EM-12 Disaster Welfare Inquiry (01/03)
- EM-13 Internal Evacuation (02/06)
- EM-14 Staff Support (01/03)
- EM-15 Disruption of Services Resulting in Hospital Relocation (02/06)



Emergency Management Plan (con't.)

- EM-16 CODE GREEN - Internal Emergency (01/03)
 - EM-17 CODE GRAY - Inclement Weather (05/06)
 - EM-18 CODE YELLOW - External Disaster (01/03)
 - EM-19 CODE RED - Fire (01/03)
 - EM-20 CODE PINK - Elopement/Abduction/Recovery of Patients (02/07)
 - EM-21 CODE ORANGE - Nuclear Biological Chemical Disaster (01/03)
 - EM-22 CODE WHITE - Violence in the Workplace (08/05)
 - EM-23 CODE BLUE - Cardiopulmonary Arrest Management (06/05)
 - EM-24 Outside Agency Disaster Integration (08/05)
 - EM-25 Recovery (08/05)
- Louisiana Hospital Emergency Preparedness and Response (Draft 06/05)
Emergency Support Function 8 - Public Health and Medical Services Annex





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Calm After the Storm



New Orleans Underwater





Suburbs





Surrounding Communities







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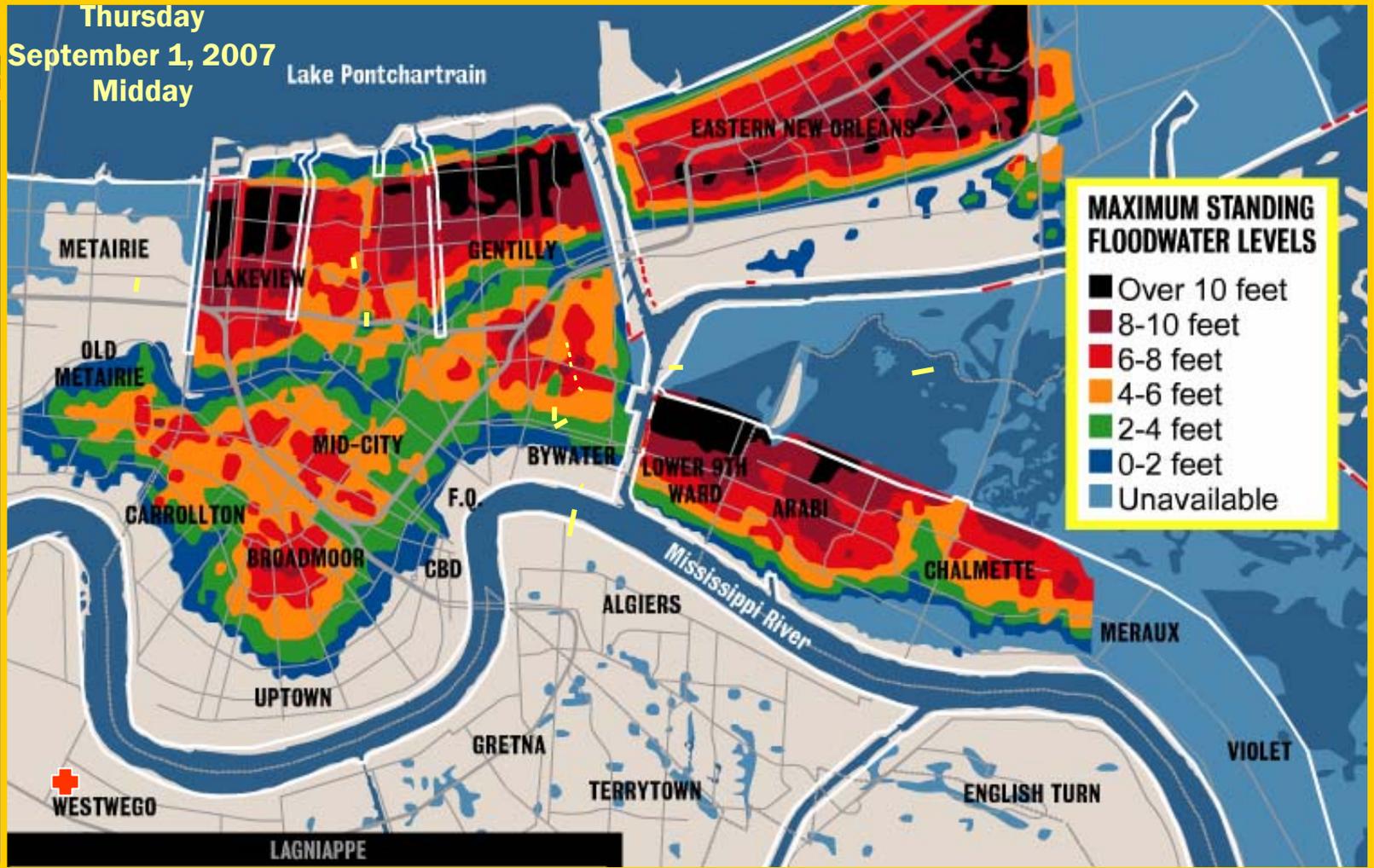
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POST KATRINA

Thursday
September 1, 2007
Midday





HOW THE CITY FLOODED

www.nola.com/katrina/graphics/flashflood.swf



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Over 1.1 million people evacuated for Hurricane Katrina and, as of the end of December, more than 500,000 had yet to return, and many never will. Michael Chertoff, Secretary of the Department of Homeland Security, reported to the Senate Homeland Security and Governmental Affairs Committee in late February that Hurricane Katrina completely destroyed or made uninhabitable an estimated 300,000 homes



300,000 homes (on lots with an average of 50 foot fronts)

lined up in a row would span 2,841 miles

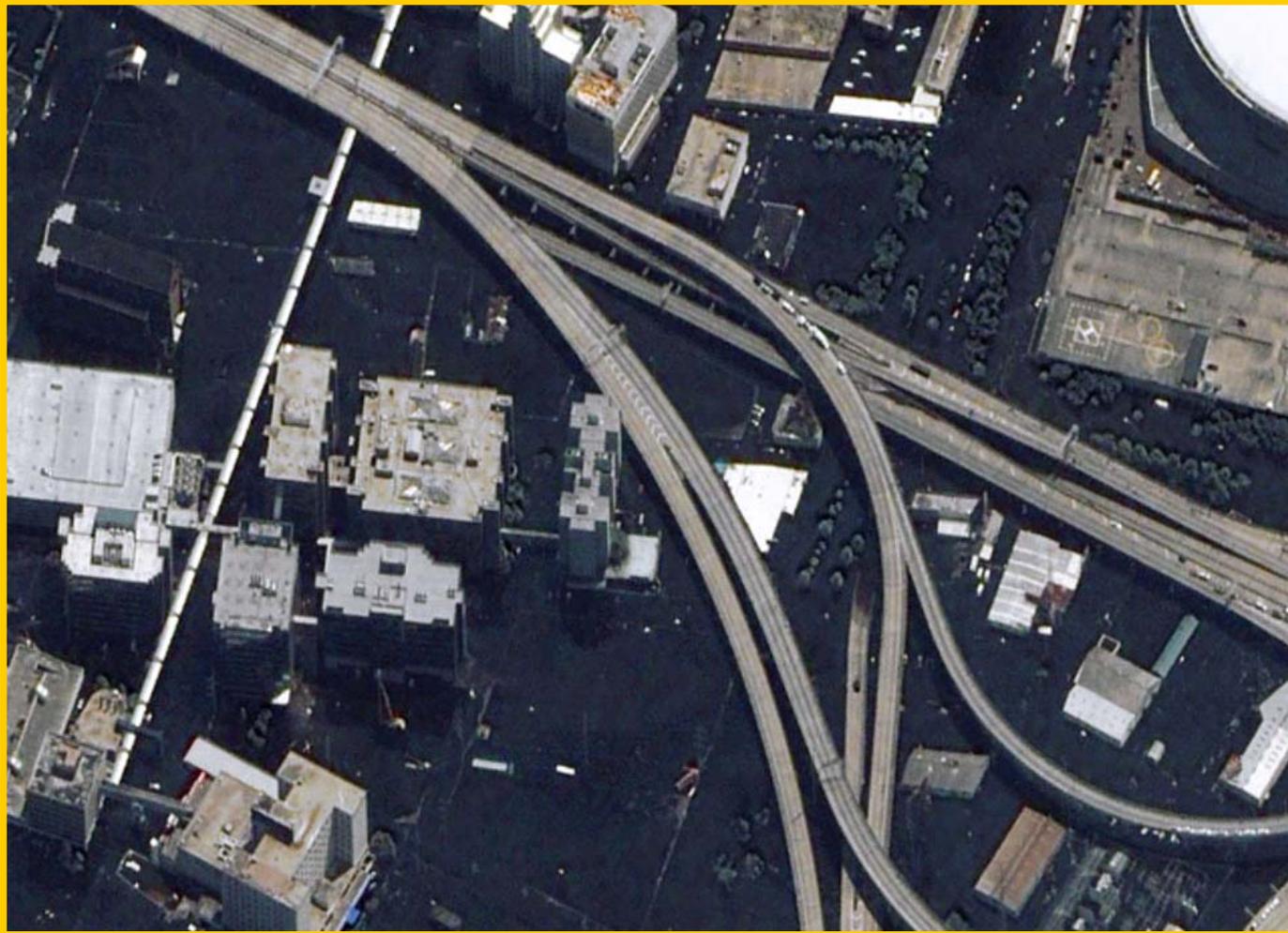




Local and national news reported that there were terrible living conditions in some hospitals during and after the storm, and that there were many deaths.



NEONATAL TRANSPORT







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NEONATAL TRANSPORT





CNN HEADLINE

Tuesday, August 30th, 11:45 p.m.

“CHILDREN’S HOSPITAL UNDER SIEGE”

“Late Tuesday,...looters were trying to break into Children’s Hospital. ...police have not been able to respond. Governor Blanco has been told of the situation...the National Guard has also been unable to respond.”

10:30 AM

Wednesday, August 31, 2005



Steve Worley, President & CEO, makes decision that it is in the best interest and safety of our patients, their families and the employees and medical staff that we evacuate the hospital.

PRE-EVACUATION



In-house Executive Staff decision/planning



Communication



Meeting with staff/Medical Staff



Meeting with patients and families



Coordination with external resources – in state and out of state hospitals



**Non-hospital based executive staff
arranging for office space, housing,
armed security for evacuated hospital**

THE EVACUATION



103 Patients



9 different destinations



3 different modes of transport



Completed in 21.5 hours



Every child survived





ANG

★ TEXAS ★

51368



TEXAS AIR GUARD

THE EVACUATION







EVACUATION





KCTV
5
NEWS

Overland Park 9AM: 71° 5PM: 69° 6:04 70°



KCTV
5
NEWS

Lawrence 9AM: 71° 5PM: 69° 6:04 70°



Students displaced by Katrina.

RELIEF
EFFORT

OUR RESCUERS







EVACUATION





LAST FLIGHT





Children's Hospital

CLOSED

September 1, 2005 - October 10, 2005



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OUR PROFESSIONAL SECURITY FORCE





POST EVACUATION OFFICES



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Assistance provided to protect the integrity of pediatric care available in the community



- Displaced community pediatricians saw patients in our outpatient clinics
- Renovations to Kids First Clinics & a new clinic in Kenner
- Assumed responsibility for additional pediatric residency training

Assistance provided to protect the integrity of pediatric care available in the community



- Increased financial support for LSUHSC Pediatric faculty and guaranteed the salaries of the active pediatric specialist on the medical staff
- Provided research space for displaced researchers and their staff (approx. 65 people) in our Research Institute for Children
- Opened specialty clinics in Baton Rouge and Lafayette

Baton Rouge

Outpatient Specialty Clinic



Location of Children's Hospital's Lafayette Specialty Clinic




**BURDIN
RIEHL**
AMBULATORY
CARE CENTER
OF CHLMC
1211

Children's Hospital

NOW OPEN!

All Services and Specialties



CHILDREN'S
HOSPITAL

200 Henry Clay Ave.
(504) 899-9511

טלפקטור (985) 781-6800

Emergency Preparedness



REDUNDANCY





POST-K IMPROVEMENTS



Well with service to condenser water system and an emergency connection to the domestic water system



Transfer piping between existing underground fuel tanks



Relocate fire alarm panels



Cross over piping between cooling tower cells



Fire and Police department command center



Personal potty



POST-K IMPROVEMENTS



Secondary fuel source for boilers



On-site gasoline supply



Chain saws and industrial bolt cutter



Satellite phone and internet system



Boats



Elevator upgrade



Washer/dryer on emergency power



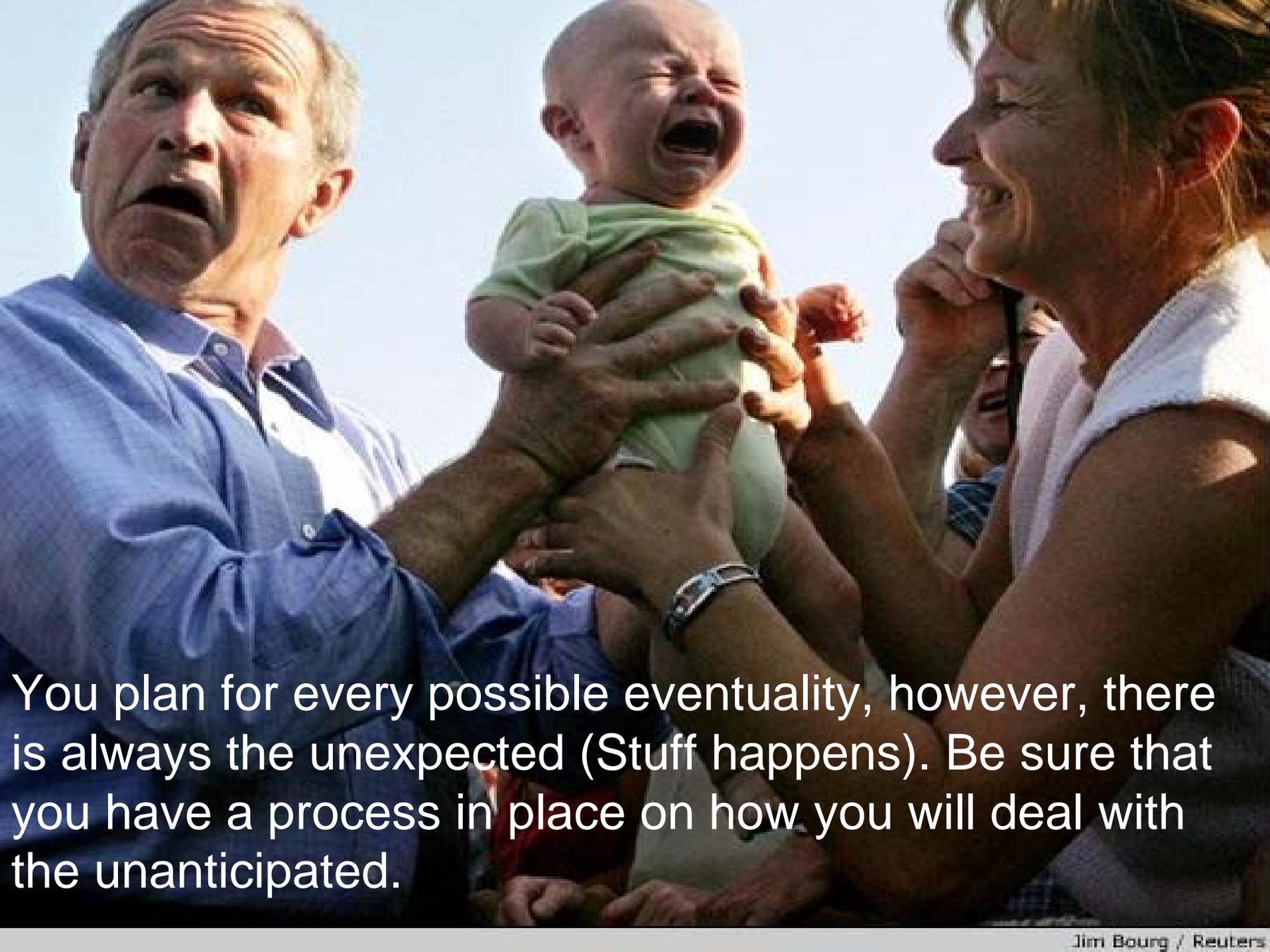


**Water well
completed at a depth
of approximately
800 feet**





Pumps 500 gallons per minute



You plan for every possible eventuality, however, there is always the unexpected (Stuff happens). Be sure that you have a process in place on how you will deal with the unanticipated.



LESSONS LEARNED



Plan, plan, plan -There is no substitution for sound preparation



Plan for the worse case



Work and coordinate with all local, state and federal agencies



Count on your friends – DO NOT depend on authorities



Communicate, communicate, communicate





LESSONS LEARNED



Think out of the box (Examples: Fire Department and Police sub-station located at the hospital during hurricanes).



Build in as much redundancy as you can (Satellite phones, remote backup systems for computer data, remote duplicate hosting of Web site).



NEW ORLEANS POPULATION



Parish	July 2005*	Dec. 2006**	Change
Orleans	452,170	191,139	(261,031)
Jefferson	451,049	434,666	(16,383)
St. Tammany	219,814	220,656	842
St. Bernard	65,147	25,296	(39,851)
Plaquemines	28,903	26,029	(2,874)
Total	1,217,083	897,786	(319,297)

*U.S. Census Bureau

**Source: 2006 Louisiana Health and Population Survey

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CHILDREN'S HOSPITAL



Children's Hospital is Hiring Nurses!





Would you like to know more about this session?

- **Brian Landry, Vice President, Marketing**
- **Children's Hospital**
- **200 Henry Clay Ave.**
- **New Orleans, La 70118**
- **blandry@chnola.org**
- **504-896-9345**
- **Don't forget to fill out and drop off your session evaluations.**