



National Optical Astronomy Observatory

Kitt Peak National Observatory • Cerro Tololo Inter-American Observatory • NOAO Gemini Science Center

Doc #: 1000-AD-015-0034

Revision: A

KITT PEAK EMERGENCY MANUAL

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REVISION HISTORY

Rev	Date Approved	Sections Affected	Reason for Change Remarks and/or Change Details	Name
A	6/12/18		Initial vault release	T. Lavoie

Approved by:

Ralph Smith

Name, Facilities Manager

Larry Reddell

Name, Mountain Facilities Supervisor

Tammie Lavoie

Tammie Lavoie, Safety Manager

19 June 2018

Date

1.0 INTRODUCTION

The intent of this emergency manual is to provide information to employees, tenants, docents, visitors, contractors and the general public about hazards and responses to emergencies at Kitt Peak.

Please read this manual, if you have any questions or comments please e-mail or call the Safety Manager, Tammie Lavoie, tlavoie@noao.edu, 318-8211.

2.0 IN CASE OF EMERGENCY (All emergencies, injury, fire or threats to people or property)

2.1 Telephone:

- Dial 8777 or 8721 or/and 911
- Dial 8777 – If there is no immediate answer –DO NOT HANG UP. 8777 rings a sequence of extensions beginning with the reception desk until a responsible person is reached.
- DIAL 8721 - To be connected directly to the Radio System by telephone. After one or two beeps, state the Emergency and the location. This is a two-way radio phone patch. Dial "#" to disconnect.

2.2 Radio:

- Use the radio to call on channel 1 and state your emergency.

2.3 Dial 911 – in the event that you are unable to contact anyone on the mountain or if you feel the emergency requires additional help.

3.0 EMERGENCY CALL PROCEDURES

3.1 State on the telephone or radio:

- I have an emergency (wait for a reply)
- The type of emergency
- Your name and phone number
- The exact location of the emergency
- If assistance is required (medical, firefighting, etc.)
- The number of injured persons
- If a hazardous condition currently exists
- Who is at the emergency scene
- Wait for instructions before hanging up

3.2 If an ambulance is called, have someone meet the ambulance at the entrance to the visitor center area to direct them to the location of the emergency.

3.3 INSTRUCTIONS FOR ASSIGNED KITT PEAK FIRST RESPONSE TEAM:

The Kitt Peak person receiving the call will immediately alert proper personnel and/or authorities depending on the type of emergency. In many instances, the Observing Technician(s) on duty may be able to handle the situation without calling out off-duty personnel.

3.4 All emergencies require prompt contact with the Supervisor, Safety Manager and Facilities Manager.

3.5 AFTER HOURS INSTRUCTIONS:

After normal office hours (8:00 AM to 4:00 PM), all calls reporting an emergency are to be directed to Extension 8777 or the radio patch extension 8721 or 911 (if needed).

During the 4M construction phase, the WIYN OA is the contact person at 8760.

(The 4M Observing Assistant (OA) will resume this role when the telescope goes into operation-8620.)

4.0 EMERGENCY ACTIONS

4.1 During Fire or other Emergency:

- REMAIN CALM – avoid panic and confusion.
- KNOW THE LOCATIONS OF EXITS – be sure you know the safest way out of the building, no matter where you are.
- KNOW THE LOCATION OF NEARBY FIRE EXTINGUISHERS – learn the proper way to use all types of extinguishers.
- KNOW HOW TO REPORT A FIRE OR OTHER EMERGENCY- send in the alarm without delay.
- FOLLOW EXIT INSTRUCTIONS – determine if you should stay at your location, if you decide to leave or you are instructed to leave; complete all emergency duties assigned to you and be ready to walk out rapidly according to plan.
- WALK TO YOUR DETERMINED EXIT – maintain order and quiet; take each drill seriously – it may be the real thing.

5.0 FIRE EMERGENCY PROCEDURES

5.1 If you discover a fire in a building, pull the nearest pull station to alert and evacuate everyone in the building.

5.2 Call 8777/8721 or 911

5.3 If the fire can be contained or extinguished without endangering yourself, use the nearest fire extinguisher.

5.4 If you are unable to control the fire, leave and close the door behind you. Evacuate to the Fire Emergency Center (Fire Barn).

5.5 Instructions for the Assigned Kitt Peak Response team:

- If alarm was received automatically, from the smoke or heat detectors, report to the Kitt Peak Emergency Center and respond to the location with the fire apparatus. The location should be seen on the fire panel and will indicate “trouble” or “alarm”.
- If the panel reads “trouble” mode (yellow light), attempt to reset to normal mode.
- Check to see which zone is in alarm.
- When help arrives, check out the zone. Do Not Attempt to enter any building.

5.6 It is important to maintain radio contact with all other staff on the mountain and report what you do, see, hear and smell.

5.7 If there is no pull station, and there is a risk to Kitt Peak, initiate the audible alarm by the pull station in the Fire Barn. Call 911 and follow emergency call procedures.

6.0 STANDARD OPERATING PROCEDURES FOR FIRE RESPONSE

6.1 Anyone who hears the fire siren should announce via the radio (3 Times), “There is a fire alarm in progress, will all duty personnel please report to the Fire Barn!”

6.2 If a building’s fire alarm is sounding, affected individuals and/observers should evacuate the building with a radio and a flashlight (if it’s dark) and await further instructions via the radio.

6.3 All responding mountain personnel should determine the location of the fire from the computer in the fire barn office. A minimum of 3 people should be at the fire barn in order to deploy to the fire area. If there are less than 3 people, request for more personnel via radio.

6.4 On the weekends and after 4PM, TRAINED STAFF present on the mountain should report to the fire barn. The OA’s will shut down their telescopes and respond to the fire barn.

6.5 Two people should respond in the Fast Attack. One should be at the Fire Barn to await additional instructions via radio.

6.6 The Fast Attack personnel will evaluate the situation and determine the next course of action. (Have 911 called or false alarm.)

6.7 If Fire/Smoke is present: Get additional support in route. Have Fire Barn personnel call 911. IF time permits, use the Foam Truck to begin laying down water to stop fire from spreading. You are not Fire

Fighters! Do Not Go Into Any Building to Rescue Anybody or Anything. You are simply there to spray water to keep fire from spreading. If fire becomes too much or your life is in danger – evacuate to a safer area.

6.8 If no Fire/Smoke is present: Announce via radio that it is a false alarm and return equipment to the fire barn.

7.0 WEATHER HAZARDS

7.1 Lightning Hazards - Lightning is considered one of the greatest hazards at Kitt Peak. The following suggestions can minimize your risk during a lightning storm:

- Know the location of the nearest safe shelter and how long it will take you to get there.
- If you can hear thunder, you are close enough to the storm to be struck by lightning. Get to a safe shelter.
- Determine whether the storm is approaching your position.
- Seek shelter in a sturdy building or an auto with the windows up.
- Move to a safe location early enough not to get caught in the storm.
- Once inside, stay away from metal objects (faucets, showers) and stay away from phones unless it is an emergency.
- Shacks, metal sheds, picnic shelters are considered unsafe! If you are out in the open during a storm, stay away from exposed objects or away from open areas.
- The safest position to be in is to be crouched down on the balls of your feet. Do not allow your hands or any other body part, to touch the ground. Keep your feet as close together as possible.

7.2 Winter Hazards

- During the winter, Kitt Peak receives snow and ice accumulations. You will find sand barrels near most building entrances that are used on walkways to prevent slipping. Feel free to use them to help prevent anyone from slipping and falling.
- Snow which accumulates on the roads and telescope domes will often melt during the day, but refreeze at night. This can result in the roads being coated with clear ice which poses a slip hazard for both walking and driving, particularly on the hills leading to WIYN and the 4-meter telescopes.
- In addition, snow and ice accumulating on the 4-m telescope dome and catwalk can break off and fall, posing a significant hazard to those walking in the vicinity of the building. Large ice chunks have been known to fly off the dome and land at the edge of the parking lot, 30 feet or more away from the building itself. Under these conditions, the 4-meter telescope may be closed to the public, and staff should park under the protective overhang by the large roll-up door on the north side of the building and enter using the nearby doorway.

7.3 Instructions for the assigned Kitt Peak Response Team:

- Should the facility have serious weather damage, personnel could be instructed to evacuate. Via radio contact determine a meeting location.

- Kitt Peak Response Team Leader is responsible for accounting for personnel in the meeting area and identify any missing persons.

8.0 WILDLIFE ENCOUNTERS

8.1 There is wildlife on and around Kitt Peak. Bobcats, Mountain lions and bear have been active on the mountain. There are also snakes both venomous and non-venomous.

8.2 Do not approach or feed any wild animals you may encounter. We do not want to interfere with the natural habitat.

8.3 If you are bitten by an animal – contact 8777, 8721 or 911. If it is suspect that the animal may be rabid, call Arizona Game & Fish Department (Tucson) 520-628-5376.

8.4 Be cautious while walking at night when the snakes may come up onto the roadways to stay warm.

8.5 Also be aware of swarming bees and hornets. Try to avoid the areas as much as possible. Kitt Peak DOES NOT have epi-pens available on site.

9.0 VEHICLE ACCIDENTS ON KITT PEAK

9.1 In case of a motor vehicle accident on Kitt Peak, follow your emergency procedures.

9.2 Perform CPR/first aid if necessary.

9.3 Call 911 for an ambulance and cooperate with emergency services.

9.4 Try to control access to the scene by warning other motorists to avoid the area.

9.5 If on Kitt Peak leased property, monitor clean-up and retrieve any personal property or documents that may have contributed to the cause of the accident.

9.6 Fill out a vehicle accident/incident report.

10.0 UNAUTHORIZED OR SUSPICIOUS PERSON(S) IN THE AREA

10.1 Before approaching any unauthorized or suspicious person(s), determine what they are doing and if their behavior may be a threat to you. Any doubt-call 8777, 8721.

10.2 Identify their purpose for being on site.

10.3 Remain calm and do not become argumentative with the person.

10.4 Do not try to remove the person from the premises by yourself.

10.5 Try to note the person's description (height, weight, complexion, dress, etc.)

10.6 Try to note which direction they head out to.

11.0 VIOLENCE

11.1 If you find yourself in a situation where you feel that a person or property is threatened, call 8777/8721, to notify the Kitt Peak First Response Team of the Emergency and/or **Dial 911** and follow the **Emergency Call Procedure**

11.2 INSTRUCTIONS FOR ASSIGNED KITT PEAK FIRST RESPONSE TEAM:

- Observe the facts, assess the situation, and, if possible, remove personnel from any immediate danger.
- Take whatever steps that can safely be taken to reduce or eliminate the risks without putting anyone in danger. If there is a confrontation, try to calm the situation or disengage from the confrontation.

11.3 If there is any risk to occupants of the facility, contact Supervisor or pass the word on to avoid or vacate the affected area.

12.0 POWER FAILURE

12.1 If you experience a power failure - Call 8777/8721 and notify Supervisor/Electrician personnel of power outage.

12.2 If personnel responding require additional assistance, contact: Kitt Peak Facilities Supervisor, Larry Reddell at 520-318-8734 (Office) or (520)-318-8611(Residence).

12.3 Telephones and total power failure: Use Cell Phones

13.0 BROKEN WATER MAIN/SERIOUS LEAK

13.1 If you discover a broken water main or serious water leak: Call 8777/8721 and notify of problem.

13.2 INSTRUCTIONS FOR ASSIGNED KITT PEAK FIRST RESPONSE TEAM:

- If you are the person who responds to the emergency, immediately go to the Pressure House and the Pump House (located SE of the Water Collection Basin) follow instructions below.

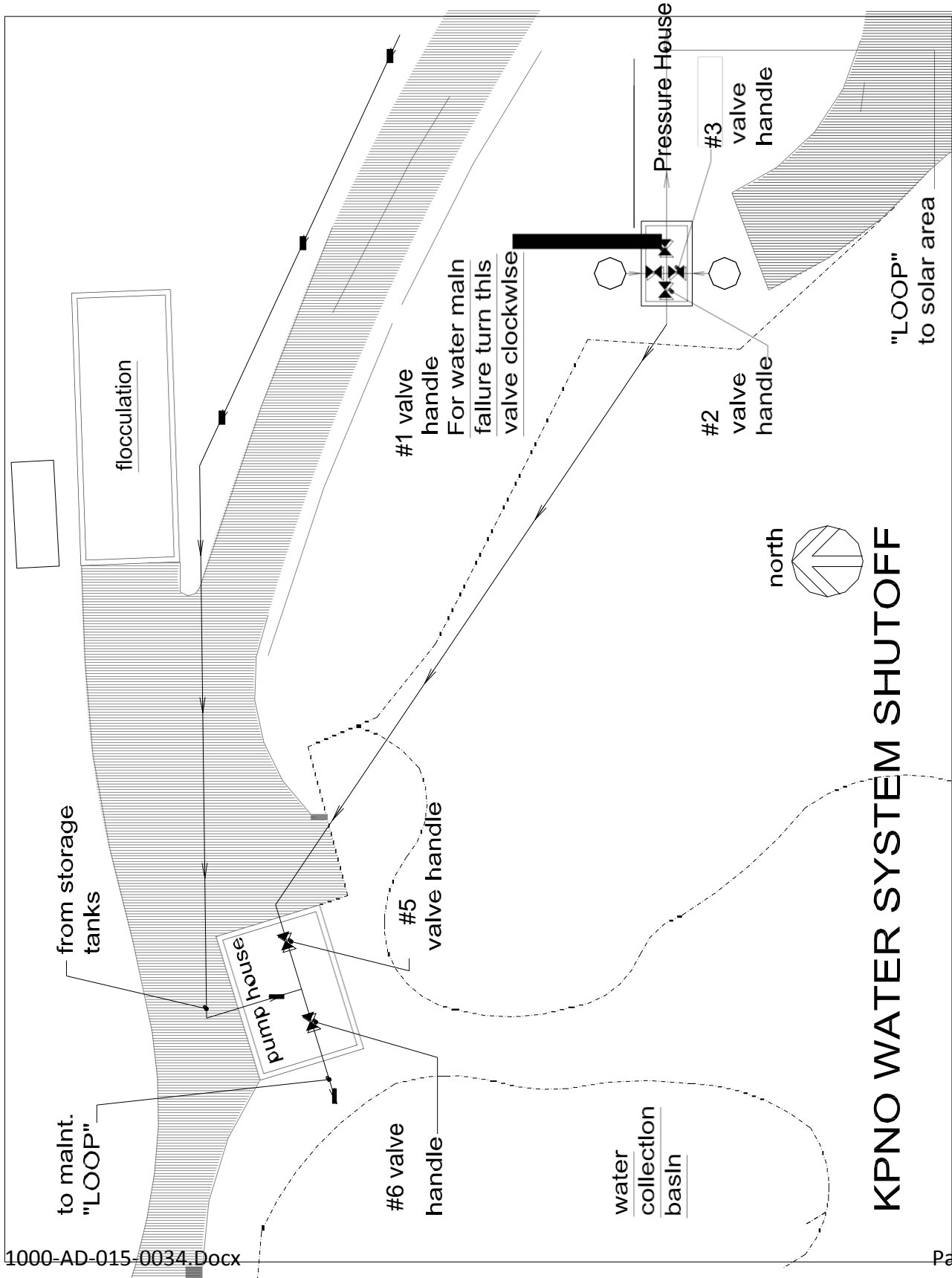
13.3 If maintenance personnel are not available, follow the procedure below:

13.4 **EMERGENCY WATER MAINS SHUT OFF** - See drawing on next page

- If there is a broken water main, go to the **Pressure House**, lift the hatch in the floor and turn the **#1 & #2** valve handles clockwise to close the 6" valves.
- Then proceed to the **Pump House** and turn the **#5 & #6** valve handles clockwise to ensure that the valves are closed. These are the RED valve handles close to each other as you enter through the doorway.
- Then shut pumps off at gray **Pump Control Panel** by turning large black handle to off.

Note: If you are unsure which way to turn the valves, the handles have arrows showing which way to open and close.

After closing the valves, call maintenance personnel for further instructions.



14.0 PROPANE OR OTHER GAS LEAK

14.1 If you observe or smell a gas leak:

- Contact maintenance at 8777/8721 for assistance.
- Maintenance personnel will assess the situation and attempt to close all inlet valves.
- Maintenance will isolate power/ignition sources in the area of the gas leak.
- No smoking, open flames or hot work within a minimum of 25 feet.
- Evaluate as to whether an evacuation of the area is necessary.
- Stay upwind of the leak.
- Maintenance will call the gas provider if they cannot shut the system down.
- Call Fire department at 911 if needed.

15.0 Chemical Spill

15.1 In the unlikely event of a chemical spill:

- Contact maintenance 8777/8721 for a hazardous material handler to respond.
- Determine what has been spilled and have the SDS available.
- If trained, respond to any injuries.
- Containment will be made for small spills.
- For any large chemical spills, call 911.

16.0 COLLAPSE, STRUCTURAL FAILURE, PROPERTY DAMAGE

16.1 If you experience or witness a structural failure or property damage:

- Leave the area immediately
- Do not enter the affected area
- If trained, care for injured persons
- Call 8777/8721 or radio contact or 911

16.2 Stop all operations in the area until it is safe to resume. Determine if utilities need to be shutdown.

16.3 If there is anyone injured, follow the procedures for Injury or Illness. If there is anyone in need of rescue, **Dial 911**.

16.4 Remain at the safe vantage point until relieved by a higher authority and authorized to leave. If there is a chance of continuing risk, consider giving the order for a partial or full evacuation of the site.

16.5 Prepare access to the scene for emergency services vehicles when it is safe for them to enter the area, and direct them to the scene.

17.0 BOMB THREAT

17.1 **If you receive a bomb threat call:**

- Try to keep the caller on the line as long as possible.
- Notify someone else to call 911 for a phone trace, if possible.

- Use the Checklist for Bomb Threats on the next page. Ask the caller to repeat the message.
- Write down the message.
- Try to persuade the caller to reveal the location and detonation time.
- Listen carefully for any background sounds that may indicate the caller's location at the time the call is placed.
- Try to detect a speech pattern or accent in the caller's voice.
- Call 8777/8721 and then follow the **EMERGENCY** procedures.

17.2 Try to create radio silence: transmitting on the two-way radio could trigger a detonator.

If the threat is directed against Kitt Peak Mountain, report this immediately to the KPNO Director. If unavailable, telephone the next person on the list as follows:

Kitt Peak Mountain:

Larry Reddell, Kitt Peak Facilities Supervisor
520-318-8734 (Kitt Peak Office)
520-318-8611 (Residence)

Tucson:

Director of Kitt Peak National Observatory
520-318-8486 (Office)

Ralph Smith, Facilities Manager
520-318-8284 (Tucson Office)
361-633-3277 (cell)

Tammie Lavoie, Safety Manager
520-318-8211 (Tucson Office)
603-915-1516 (cell)

17.3 The person contacted is the designated official in charge. The designated official will **Dial 911** and report the incident and will follow any instructions given.

17.4 The designated person shall determine if evacuation of buildings and/or area is indicated. If so, proceed with orderly evacuation to a determined area such as the Fire Barn. Then contact the Safety Manager to further assist you.

17.5 Thoroughly search the Kitt Peak Emergency Center (Fire Barn), establish as a control center, if it is not considered the area threatened.

17.6 The bomb squad requests that no information be released to the news media because this may precipitate additional calls.

17.7 All inquiries from the news media should be directed to the KPNO Director.

CHECK LIST FOR BOMB THREATS

Be calm and courteous. Notify a supervisor/others while caller is still on the line if possible.

EXACT WORDING OF THE THREAT:

QUESTIONS TO ASK:

1. When is the bomb going to explode?
2. Where is it right now?
3. What does it look like?
4. What kind of bomb is it?
5. What will cause it to explode?
6. Did you place the bomb?
7. Why?
8. What is your address?
9. What is your name?

CALLER'S VOICE

- | | | | |
|---|------------------------------------|---|--|
| <input type="checkbox"/> Calm | <input type="checkbox"/> Angry | <input type="checkbox"/> Excited | <input type="checkbox"/> Slow |
| <input type="checkbox"/> Rapid | <input type="checkbox"/> Soft | <input type="checkbox"/> Loud | <input type="checkbox"/> Laughter |
| <input type="checkbox"/> Crying | <input type="checkbox"/> Normal | <input type="checkbox"/> Distinct | <input type="checkbox"/> Slurred |
| <input type="checkbox"/> Nasal | <input type="checkbox"/> Stutter | <input type="checkbox"/> Lisp | <input type="checkbox"/> Raspy |
| <input type="checkbox"/> Deep | <input type="checkbox"/> Ragged | <input type="checkbox"/> Accent | <input type="checkbox"/> Clearing throat |
| <input type="checkbox"/> Familiar | <input type="checkbox"/> Disguised | <input type="checkbox"/> Deep breathing | |
| <input type="checkbox"/> Cracking voice | | | |

If voice is familiar, who did it sound like? _____

BACKGROUND SOUNDS:

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Street noise | <input type="checkbox"/> Crockery | <input type="checkbox"/> Voices | <input type="checkbox"/> PA System |
| <input type="checkbox"/> Music | <input type="checkbox"/> House noises | <input type="checkbox"/> Motor | <input type="checkbox"/> Office machines |
| <input type="checkbox"/> Factory machines | <input type="checkbox"/> Animal noises | <input type="checkbox"/> Clear | <input type="checkbox"/> Phone booth |
| <input type="checkbox"/> Static | <input type="checkbox"/> Local | <input type="checkbox"/> Long distance | |
| <input type="checkbox"/> Other | _____ | | |

THREATENING LANGUAGE:

- | | | | |
|--------------------------------------|---|-------------------------------|-------------------------------------|
| <input type="checkbox"/> Well-spoken | <input type="checkbox"/> Incoherent | <input type="checkbox"/> Foul | <input type="checkbox"/> Irrational |
| <input type="checkbox"/> Taped | <input type="checkbox"/> Message read by threat-maker | | |

Remarks _____

Sex of caller: _____

Race: _____

Age: _____

Length of call: _____

Number at which call was received: _____

Time: _____

Date: _____

Your Name: _____

Your Position: _____

Your Telephone Number: _____

18.0 EXPLOSIONS

18.1 In the unlikely event that you witness an explosion **Dial 911** and follow the **Emergency Procedures**.

- If available, pull the nearest fire alarm
- Then call 8777/8721 to notify the Kitt Peak First Response Team.
- Care for injured persons if it is safe to do so.

18.2 Assess the situation. Make sure there will not be subsequent explosions.

18.3 Evacuate the affected area and move to a safe vantage point. Do not endanger yourself or other rescuers.

18.4 Prepare access to the scene for emergency services vehicles when it is safe for them to enter the area, and direct them to the scene.

19.0 MEDIA INCIDENTS

19.1 All Media requests shall be directed to the KPNO Director.

19.2 If you are approached by the Media during an emergency: Contact Maintenance Supervisor, CFO Manager, Safety Manager and KPNO Director.

19.3 If you are approached by the Media during a non-emergency, contact the KPNO Director for instructions.

19.4 The KPNO Director will develop a media strategy. No other NOAO employees should make statements without clearance. Whenever possible, such statements should be coordinated and cleared with the KPNO Director in advance.

20.0 EMERGENCY EVACUATION

20.1 In the event that Kitt Peak management decides that there is danger to people on the mountain, notification to evacuate will be communicated on the radio, by phone and physically. Everyone is asked to comply with the request of the Incident Commander/Kitt Peak First Response Team Leader.

20.2 The Incident Commander, depending on the emergency, can be a US Wildfire Manager, Kitt Peak Supervisor or NOAO designee.

20.3 The Incident Commander will determine and coordinate the following actions:

- Initiation of the general alarm, if not yet activated.
- Notification of the Tohono O'odham Fire Department and emergency response network.

- Notify the Safety Manager and, if possible, CFO Manager.
- Activities of the fire brigade and if firefighting is necessary at the facilities.
- Assess the need for building and/or mountain evacuation.
- Sheltering necessity instead of evacuation.
- Feasibility of perimeter foaming by fire brigade.
- Feasibility to shut off propane tank valves and to turn off power to telescopes.
- Initiate closure of all windows, doors and openings in buildings.
- Notification of all personnel (including tenants and public) on the mountain by radio, telephone, and physically “pounding on doors” (use area map and develop contact list) and request people to go to the assembly area.
- Turn Kitt Peak authority over to highest emergency response department having jurisdiction.
- Close gate at bottom of Mountain

20.4 During Mountain Evacuation the Incident Commander will:

- Identify assembly area, visitor parking lot is preferred.
- Prepare a list of contacted individuals/organizations and review list to ensure that all personnel are accounted for.
- Determine what route shall be taken for evacuation.
- Request the public to evacuate mountain if practical, check restrooms at the 4 meter, Solar, and other public areas.
- Coordinate drivers and move vehicles to assembly area
- Authorize each vehicle for departure and check off occupants on roster.
- Save one vehicle for the Incident Commander and remaining staff to evacuate.

20.5 If sheltering is needed prior to an evacuation, the Incident Commander will:

- Determine if personnel can be rescued by helicopter.
- Notify emergency response department of shelter location at the Mayall 4 meter pier.
- Determine assembly area, visitor parking lot is preferred.
- Prepare a list of contacted individuals/organizations and review list to ensure that all personnel are accounted for.
- Request public to convene at the assembly area.
- Coordinate drivers and move vehicles to assembly area.
- If possible, gather water, medical supplies, food and oxygen.
- Authorize each vehicle to shelter area and check off occupants on roster.
- Save one vehicle for Incident Commander, remaining staff, and proceed to shelter area.

21.0 USEFUL TELEPHONE NUMBERS

Observatory Personnel:

Lists of speed-dial numbers of observatory personnel home telephone numbers are carried by all Observing Techs as well as being posted in all telescopes.

Local Government

Tucson Police Department Non-Emergency 791-4444	911
Tucson Fire Department	911
U of A Police Department Non-Emergency 621-8273 1852 East First Street Tucson, Arizona 85721	911
Bomb Squad	911
Tohono O’Odham Department of Public Safety Fire Police Environmental Office Solid Waste Regulatory Office	911 all emergencies 520-383-8276 520-383-3275 520-383-8113 520-383-8681
Livestock Facilities Tribal Herd	520-383-6480 520-383-2459
Federal Agencies	
U.S. Border Patrol	520-505-7945
U.S. Customs	520-407-2300
Center for Disease Control (CDC)	404-639-3311
U.S. Forest Service Supervisors Office	520-388-8300
State Agencies	
Dept. of Public Safety -- Highway Patrol and Helicopter	520-746-4500
Fire Marshal’s Office	520-628-6920
AZ Occupational Safety and Health Administration	520-628-5478
Road Conditions	511

Department of Environmental Quality, Tucson	520-745-4536
Agriculture -- Pesticide Hotline	602-255-3664
AZ Game and Fish (Tucson)	520-628-5376
Poison Control	800-222-1222

County Agencies

Sheriff	520-351-4600
Animal Control	520-724-5900
Disease Control	520-243-7800

Kitt Peak Cell Phones

Administration (cell phone number) (dial 1-520)	520-730-1276
Fire Barn (cell phone number)	520-730-1132
Telephone Room (cell phone number)	520-730-5739

Chemical Spill, Kitt Peak Emergency Number	8777/8721
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Water Main Break	8777/8721
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4 meter elevator emergency telephone	520-383-3540
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Telephones and total power failure at Kitt Peak – Use Cell Phones

Tohono O'odham Utility Authority (Kitt Peak power lines only)

Power Outage	1-520-383-5800
Sells access (power failure line without generator)	1-520-383-2892

Hospitals

Univ. Physicians Healthcare @ Kino Hospital, 2800 East Ajo Way	520-874-2000
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Northwest Medical Center, 6200 North La Cholla Blvd.	520-742-9000
St. Joseph's, 350 North Wilmot Road	520-873-3000
St. Mary's, 1601 West St. Mary's Road	520-872-3000
Sells Hospital	520-383-7200
Tucson Medical Center, 5301 East Grant Road	520-324-1310
University Medical Center, 1501 North Campbell Avenue	520-694-0111

Other Tucson Police Contacts

Auto Theft	520-791-4664
Burglary	520-791-5171
Fingerprinting	520-791-4697
Fraud	520-791-4481
Gangs	520-351-4460
Homicide	520-791-4487
Missing Persons	520-791-5159
Traffic	520-791-4440
Traffic Investigations	520-791-4389

Kitt Peak Mountain Staff

Larry Reddell, Kitt Peak Facilities Supervisor
520-318-8734 (Office)
520-318-8611 (Residence)

William Buckingham, Visitor Center Manager
520-318-8163 (Office)

Tucson Staff

NOAO Director
520-318-8283 (Office)

Director of Kitt Peak National Observatory
520-318-8486 (Office)

Ralph Smith, Facilities Manager
520-318-8284 (Tucson Office)
361-633-3277 (cell)

Tammie Lavoie, Safety Manager
520-318-8211 (Tucson Office)
603-915-1516 (cell)

Tucson evening Security Service Cell Phone 520-312-4067

KPNO ADMINISTRATION/SUPPORT:		KPNO TELESCOPES:	
Conference Phone/Library	8601	4 Meter Mayall	
Dining Room	8686	Elevator Phones	4229
Dining Room Lobby	8687	4 Meter Mayall	8620
Dining Room Lounge	8689	Main Observing Room	8621
Disconnect Radio	#	Computer Room	8622
Electrician's Shop	8654	Coude Observing Rm	8623
Electronic Maintenance	8683/8722	Ground Floor	8624
Facilities Coordinator(KPNO)	8734	Lounge	8625
Facilities Manager (Dunlop)	8284	Pump Floor	8626
Fire House/First Aid	8659	Telescope Maintenance	8627
Fire/Emergency Reporting	8777 or 8721	RUPS/Transformer Rm	8628
Garage	8653	Cassegrain Focus Cage	8741
Guest Phone, Reading Rm	8602		
Instrument Support	8703	2.1 Meter Observatory	
KPNO Software Support	8684	2.1 Meter	8630
Kitchen Administration	8604	Console/Ground Floor	8630
Maint. Shop/Tool Rm	8651	Main Observing Room	8631
Mechanical Technical Support	8746	Computer Room	8632
Mountain Electronics	8663	Coude Observing Rm	8633
Observing Support (Harmer)	8218		
Plumbing Shop	8657	Coude Feed Telescope	8633
Programmer's Office	8609		
Radio for Assistance	8721	16" Telescope upper	8638
Recreation Hall	8652		
Safety Manager (Lavoie)	8211		
Scientific Support Supervisor	8701		
Solar Aluminizing Rm	8685		
Switchboard	8603		
Tech. Assistant Office	8607		
Telephone Equip. Rm	8699		
Visitor 's Center 16" lower	8725		
Visitor 's Center Mgr.	8163		
Visitor's Center	8726		
Water Pump House	8658		
Welding Shop	8655		

CASE WESTERN RESERVE		STEWARD OBSERVATORY	
Burrell Schmidt	8639	90" Telescope	8690
		36" Telescope	8693
LSST Calypso (48" - 1.2m)		Operators' Residences	8695
Facility	8775	Manager's Residence	8696
		SuperLotis facility	8770
MDM OBSERVATORY		12 Meter Telescope	8670
Offices/Telescopes	8660	Observer's Annex	8672
		Computer Room	8673
NATIONAL SOLAR OBSERVATORY		Observer's Lounge	8674
McMath-Pierce Telescope	8640	Site Manager	8675
West Office	8642	Electronics Lab	8676
Aluminizing Room	8685	Staff Astronomer	8678
KP Telescope	8646	Recreation Bldg.	8750
		Dorms 1-8	8751/8757
SARA	8763		
		VLBA (Ray McFarlin)	8778
		WKU 50" Telescope - 1.3	
		Console Room	8634
		WIYN 3.5m Telescope	
		Facilities	8760/8761
		House	8612
		WIYN 0.9m Telescope	
		Dome	8636
		Computer Room	8637
		House	8714

TELESCOPE CONTROL ROOMS	PHONE NUMBER
2.1 meter	8630
4 meter	8620
Calypso	8775
Case Western Burrell Schmidt	8639
Instrument Handling Facility	8645
McMath-Pierce	8640
McMath-Pierce Solis Tower	8646
SARA	8763
University of Arizona 36"	8693
University of Arizona 90"	8690
University of Arizona Spacewatch	8693
Visitor Center 20"	8725
Visitor Center 16"	8638
Visitor Center Roll Off Roof	8680
Western Kentucky University	8634
WIYN 3.5 meter	8760
WIYN 0.9 meter	8637
WEST RIDGE	
ARO 12 meter	8670
MDM 92"	8661
MDM 52"	8660
VLBA	8778

MAP OF KITT PEAK

