





CITY OF DENTON SNOW AND ICE RESPONSE PLAN





<u>Revision May 2022</u>

AUTHORITY AND REFERENCES

A. City of Denton Emergency Management Plan.

Ι.

- **B.** Chapter 9 City of Denton Ordinance 2004-101, Emergency Disaster Planning and Response Ordinance.
- **C.** City of Denton Emergency Operations Center Standard Operating Guidelines.
- **D.** City of Denton High Water/Severe Storm Emergency Policy and Procedures.
- E. City of Denton Inclement Weather Plan for Homeless Shelter and Expanded Services.

II. PURPOSE

The purpose of this document is to outline the organization, operational concepts, responsibilities, and warning procedures in order to assist with coordinating hazardous weather events in the city of Denton.

III. SITUATION AND ASSUMPTIONS

A. Situation

- 1. The City of Denton can expect to experience emergency situations that could threaten life, safety and property damage that necessitates the implementation of protective actions for the public at risk.
- 2. Emergency situations can occur at any time; therefore, equipment and procedures to warn the public of impending emergency situations must be in place and ready to use at any time.
- 3. Power outages may disrupt radio and television systems that carry warning messages and provide public instructions.

B. Assumptions

- 1. Timely warnings to the public of impending emergencies or those which have occurred may save lives, decrease injuries, and reduce some types of property damage.
- 2. Electronic news media are the primary sources of emergency information for the general public.

- 3. Some people directly threatened by a hazard may ignore, not hear, or not understand warnings issued by the government.
- 4. Provision must be made to provide warnings to special needs groups such as the hearing and sight-impaired, and institutions (i.e. nursing homes and correctional facilities).
- Local radio and television stations will broadcast Emergency Alert System (EAS) messages when requested by local government officials. To effectively utilize EAS, local governments and broadcasters must coordinate the procedures used to transmit warning messages and instructions from local government to broadcasters.
- The local National Oceanic and Atmospheric Administration (NOAA) Weather Radio station will broadcast weather watches and warnings issued by the National Weather Service (NWS). Weather radios are activated when such messages are broadcast.

IV. SEVERE WEATHER CONDITIONS

A. General

- 1. The response to severe weather conditions depends largely upon the nature of the forecasted precipitation.
- 2. Implementation of severe weather condition levels will be based upon National Weather Service (NWS) forecasts and scheduled products, as well as other available information.
- 3. The City Manager or his/her designee will make the final decision regarding delayed opening, early closure, or full closure. The Severe Weather Condition Levels can be used as a guide to assist with making that determination.

B. Severe Weather Alert Levels

The following Severe Weather Condition Levels will be declared to initiate planning considerations for the implementation of Severe Weather Continuity of Operations (COOP) measures.

Guarded EOC Activation BLUE (Level 4 Alert)

<u>Level 4</u> Guarded Conditions

1. Potential Incidents

A Level 4 Alert may be issued when the forecast is predicting possible severe storms threatening the City of Denton in the next 24 hours. Potential technological emergencies may necessitate the issuance of a Level 4 Alert as a precaution including a suspicious explosive device located in a highly populated area, planned civil protest/potential unrest, small-scale hazardous material incident, etc. Severe weather examples include:

- Tornado Watch
- Flash Flood Watch
- Severe Thunderstorm Watch
- Winter Storm Watch
- 2. Initial Actions

For potential severe weather, the EMC or Public Safety Dispatch will text message a **Level 4 Alert** to the **High Water Group, Swift Water Rescue Team, and EOC Incident Management Team** placing them on standby. The text will contain information such as, "Level 4 Alert: A Flash Flood Watch has been issued by the NWS and a strong storm is forecast for the Denton area. SWRT and High Water Scouts are on standby." The EMC will monitor severe weather forecasts, news media information, and/or storm spotter radio communications. The EMC will email "heads up" severe weather forecasts received from the National Weather Service Office in Fort Worth to EOC Staff.

Level 4 Alerts are issued on a regular basis during the spring severe storm season and will often necessitate the EMC reporting to the EOC if the National Weather Service Office in Fort Worth activates storm spotters for Denton County. The EMC and a volunteer amateur radio operator will participate in the Denton County Amateur Radio Emergency Services (ARES) SKYWARN Net and monitor severe storm conditions, including the possibility for tornadoes, high winds, hail, dangerous lightning, and flash flooding. Additional potential natural and technological disasters may necessitate the issuance of Level 4, 3, 2 or 1 Alerts. Text, telephone, and/or e-mail notices will be sent to the appropriate individuals with available information, as needed.

3. Typical EOC Staffing

- EMC
- Volunteer Amateur Radio Operator to monitor SKYWARN Storm Spotter Net, if activated by the National Weather Service.
- Telephone, text, and e-mail contact with IMT and appropriate EOC staff members, as needed.

Elevated EOC Activation YELLOW (Level 3 Alert)

<u>Level 3</u> Elevated Readiness

1. Potential Incidents

A Level 3 Alert may be issued when a situation has escalated to hazardous conditions such as active flash flooding, sustained high winds, tornado, large grass fires, major hazardous material incident, etc. Hurricane shelter operations where the City of Denton is providing support services (police, fire, etc.) to shelters at UNT and/or Camp Copass are typically a Level 3 Alert not requiring full EOC staffing. Severe weather examples include:

- Tornado Warning
- Flash Flood Warning
- Severe Thunderstorm Warning
- 2. Initial Actions

For severe weather emergencies, the EMC and/or Public Safety Dispatch will text message a Level 3 Alert with pertinent available information to the High Water Group, Swift Water Rescue Team, and EOC IMT. The EOC IMT will respond to Central Fire Station. The EMC will monitor severe weather forecasts, news media information, and storm spotter radio communications. The EMC will e-mail severe weather information received from the National Weather Service Office in Fort Worth to EOC Staff. In the case of severe weather, the High Water Group is typically in the process of closing streets due to high water and the Swift Water Rescue Team are making calls to stranded motorists. The Streets and Drainage Superintendent will notify the EMC of any road closures. The EMC will provide this information to Fire Alarm on the EOC Dispatch Channel. Individual departments may establish Department Operations Centers (DOCs), if needed, and maintain contact with the EOC. In the event the outdoor warning sirens are activated, the EMC or a PIO will be in radio contact with the station manager or staff at KNTU 88.1 FM to provide emergency public information to City of Denton residents. The information will state why the sirens are being activated, where the possible tornado is located, direction of travel (if known), and what citizens can do to protect themselves. If tornado damage occurs in the city limits, a Level 2 Alert may be initiated.

3. Typical EOC Staffing

- EMC
- EOC Incident Management Team
- Volunteer Amateur Radio Operator to monitor SKYWARN storm spotters
- EMC will maintain radio contact with Fire Alarm concerning road closures or storm siren activations.
- Telephone and e-mail contact with appropriate EOC staff members, as needed.

High EOC Activation ORANGE (Level 2 Alert)

<u>Level 2</u> High Readiness

1. Potential Incidents

A Level 2 Alert will signify a *major disaster* event with extensive damage to the city such as from a major tornado, large-scale flash flooding, a significant hazardous materials incident, or other substantial natural or technological disaster. Shelter operations where City of Denton recreation center(s) are used as shelter sites following an evacuation would typically be a Level 2 Alert requiring a significant amount of City resources and coordination of activities by EOC staff.

2. Initial Actions

For severe weather emergencies, the EMC and/or Public Safety Dispatch will text a Level 2 Alert with pertinent available information to the High Water Group, Swift Water Rescue Team, EOC IMT, and Leadership Team/EOC Staff. Major flash flooding experienced in Denton in April and June 2007 were Level 2 Alerts with extensive flood damage to homes, businesses, and significant debris management issues. EOC staff met the following morning for damage assessment updates and to coordinate recovery issues. A Level 2 Alert will also normally require the Mayor to sign a local disaster declaration which is a prerequisite to obtain state and federal assistance. Public information dissemination on KNTU 88.1 FM and other news outlets will occur. In addition, a Joint Information Center (JIC) may be established at Central Fire Station in the Operations Conference Room on the west side of the lobby. City PIOs may utilize this room to develop press releases, conduct meetings, and coordinate public information activities. The EMC will maintain contact with Fire Alarm to coordinate information on impacted areas of the city. The EOC IMT will facilitate table sections and assist with coordinating required activities as outlined in this framework.

3. Typical EOC Staffing

Full EOC staffing with all Leadership Team members, IMT, and support staff reporting to Central Fire Station. The EMC will utilize the **Everbridge Emergency Notification System** to advise staff that the EOC is activated. In addition, liaison agencies such as the American Red Cross, UNT, TWU, Denton ISD, and United Way may be requested to report to the EOC for assistance depending on the situation. The EOC may be staffed for a few hours or for an extended period of time. In some cases, a briefing may be held for EOC staff members at periodic times throughout the day in order to bring everyone up-to-date on the emergency situation. Otherwise, EOC staffing may be at a minimal level while recovery activities are taking place. If extensive damage occurs in the City, TDEM and FEMA representatives may report to the EOC to coordinate cost and recovery activities.

City Campuses Open: Airport (Admin, LESA, Terminal, and Tower)

	Animal Shelter City Hall East (PD and Jail) Electric Engineering and Systems Operations Electric Metering Emergency Operations Center at Central Fire Facilities Management Fire Stations Fleet Services Lake Lewisville Water Treatment Plant Lake Ray Roberts Water Treatment Plant Pecan Creek Water Reclamation Plant Service Center (Streets/Parks/Water Utilities) Solid Waste/Landfill Operations Traffic Control
City Campuses Closed:	All City Parks American Legion (North & South) City Hall City Hall East (with the exception of PD and Jail) Development Services Center Civic Center Clear Creek Natural Heritage Center Denia Recreation Center Library – Emily Fowler Library – North Branch Library – North Branch Library – South Branch MLK, Jr. Recreation Center Natatorium/Water Park North Lakes Recreation Center Senior Center

E. Severe EOC Activation RED (Level 1 Alert)

Level 1

Severe Situation

1. Potential Incidents

A Level 1 Alert indicates a *catastrophic disaster* either impacting or imminent for the City of Denton. This severe situation will necessitate use of all or a vast majority of available City personnel and resources over an extended period of time. Mutual-aid assistance may be needed from other communities, state, and federal agencies. Examples include a direct hit from an EF4 or EF5 tornado with mass casualties and numerous fatalities, hazardous materials release involving a substance immediately dangerous to life and health requiring mass evacuation and shelter operations, massive flash flooding impacting a significant portion of the city, domestic terrorism incident, and other large-scale events that will overwhelm local response capabilities.

2. Initial Actions

For severe weather emergencies, the EMC and/or Public Safety Dispatch will text a Level 1 Alert with pertinent available information to the High Water Group, Swift Water Rescue Team, EOC IMT, and Leadership Team/EOC Staff. A Level 1 Alert indicates extensive damage has occurred inside the city, and/or evacuation and shelter activities are taking place. The City response resources will be overwhelmed with mutual-aid requested from other jurisdictions. Once response efforts subside, the EOC will transition to recovery phase duties. Public information dissemination on KNTU 88.1 FM and other news outlets will occur. The on-site Incident Command Post (ICP) for emergency services and other response crews (streets, drainage, utilities, etc.) will keep the EOC apprised of conditions in the field. Department supervisors should maintain or increase staffing of Department Operations Centers (DOCs) and maintain contact with the EOC. Additional staffing for public safety dispatch will be necessary. A Joint Information Center (JIC) will be located at Central Fire Station. A news media briefing area may be located near the disaster scene or at a designated City facility.

3. Typical EOC Staffing

Full EOC staffing with all Leadership Team members, IMT, and support staff reporting to Central Fire Station. Secondary shifts will be needed for 24-hour operations. The EMC will utilize the **Everbridge Emergency Notification System** to advise staff that the EOC is activated. Liaison agencies will be requested to report to the EOC for assistance. City Council members may be located in the EOC Executive Overwatch room (fire administration conference room). TDEM and FEMA representatives may report to the EOC to coordinate cost and recovery activities.

City Campuses Open: Airport (Admin, LESA, Terminal, and Tower) Animal Shelter City Hall East (PD and Jail) Electric Engineering and Systems Operations Electric Metering Emergency Operations Center at Central Fire Facilities Management Fire Stations Fleet Services Lake Lewisville Water Treatment Plant Lake Ray Roberts Water Treatment Plant Pecan Creek Water Reclamation Plant Service Center (Streets/Parks/Water Utilities) Solid Waste/Landfill Operations Traffic Control

City Campuses Closed:

All City Parks American Legion (North & South) City Hall City Hall East (with the exception of PD and Jail) Development Services Center Civic Center Clear Creek Natural Heritage Center Denia Recreation Center Library – Emily Fowler Library – North Branch Library – North Branch Library – South Branch MLK, Jr. Recreation Center Natatorium/Water Park North Lakes Recreation Center Senior Center

Div.	Name of Facility	Street Address	Occupied or Not
Airport	Airport Control Tower	5003 Airport Road	Occupied
Airport	Airport LESA	4550 Schweizer	Occupied
Airport	Airport Terminal and Admin Building	5000 Airport Road	Occupied
Fleet Services	Alternative Fuel Island	1521 S. Mayhill Road	Not Occupied
Parks/Leisure	American Legion Annex	629-A Lakey Street	Occupied
Services			
Electric	ARCO Portable	1868 Geesling Road	*
Substations	Distribution Building #1	_	
Electric	ARCO Portable	1868 Geesling Road	*
Substations	Distribution Building #2		
Electric	ARCO Substation	1868 Geesling Road	*
Substations		_	
Electric	Bonnie Brae Substation	1221 N. Bonnie Brae	*
Substations		St.	
Electric	Bonnie Brae Substation	1221 N. Bonnie Brae	*
Substations	Distribution Building #1	St.	
Electric	Bonnie Brae Substation	1221 N. Bonnie Brae	*
Substations	Distribution Building #2	St.	
Parks/Leisure	Center for Visual Arts	400 E. Hickory St.	Not Occupied
Svcs			
General	City Hall	215 E. McKinney St.	Not Occupied
Government			
General	City Hall East	601 E. Hickory St.	Occupied (1/2 of
Government	(Municipal Complex)		building)
General	City Hall West	221 N. Elm St.	Not Occupied
Government			
Parks/Leisure	Civic Center	321 E. McKinney St.	Occupied
Services			
Parks/Leisure	Civic Center Pool	321 E. McKinney St.	Not Occupied
Services			
Electric	Cooper Creek	2230 Audra Ln.	*
Substations	Substation		
Electric	Cooper Creek	2230 Audra Ln.	*
Substations	Substation Dist. Bldg. #1		
Electric	Cooper Creek	2230 Audra Ln.	*
Substations	Substation Dist. Bldg. #2		
Electric	Cooper Creek	2230 Audra Ln.	*
Substations	Substation Main Control		
-	Building		
Finance	DCTA Terminal	604 E. Hickory St.	Unknown
Parks/Leisure	Denia Recreation Center	1001 Parvin St.	Occupied

C. City Buildings Occupied or Not During Severe weather Events (per FM)

Services			
Electric	Denton North	4109 N. Locust St.	*
Substations	Interchange (Substation)		
Electric	Denton North	4109 N. Locust St.	*
Substations	Interchange Storage		
Electric	Denton North	4110 N. Locust St.	*
Substations	Substation – Distribution		
	Building		
Water	DME – Substation	1701-B Spencer Rd.	Possibly
Production	Control Building		Occupied
Electric	DME Garage	1701 Spencer Rd.	Not Occupied
Operations			
Electric	DME Parking Facility	1701-D Spencer Rd.	Not Occupied
Administration	3 3 3		
Electric	Dry Storage	901 Texas St.	Not Occupied
Administration	, <u>-</u>		
Solid Waste	ECO-W.E.R.C.S. @	651 Mayhill Rd.	Not Occupied
Administration	Pecan Creek		
Electric	Electric Administration	1659 Spencer Rd.	Not Occupied
	Building	•	•
Library	Emily Fowler Library	405 Oakland	Not Occupied
Administration	, ,		
Risk	Employee Health Center	2427 S. 135 E	Unknown
Management		Suite 317	
Electric	Engineering and	1685 Spencer Rd.	Occupied
	Systems Operations	·	•
Electric	Equipment Storage	804 Texas St.	Not Occupied
Facilities	Facilities Management	869 S. Woodrow	Occupied
Management	0		•
Fire Operations	Fire Station #1	332 E. Hickory Street	Occupied
Fire Operations	Fire Station #2	3309 E. McKinney St.	Occupied
Fire Operations	Fire Station #3	1204 McCormick	Occupied
Fire Operations	Fire Station #4	2110 Sherman Dr.	Occupied
Fire Operations	Fire Station #5	2230 Windsor	Occupied
Fire Operations	Fire Station #6	3232 Teasley Ln.	Occupied
Fire Operations	Fire Station #7	4201 Vintage Blvd.	Occupied
Fire Operations	Fire Station #8	at MCD	Occupied
Fleet Services	Fleet Service Center	801 Texas St.	Occupied
Parks/Leisure	Football Concession	North Lakes Park	Not Occupied
Services	Stand		
	Stanu		
Parks/Leisure		2001 W. Windsor Dr.	Occupied
Parks/Leisure Services	North Lakes Rec Center	2001 W. Windsor Dr.	Occupied
Services		2001 W. Windsor Dr. 1300 Wilson Street	•
	North Lakes Rec Center		Occupied Occupied

Substations			
Electric	Ft. Worth Substation	4171 Ft. Worth Dr.	*
Substations	Distribution Building #1		
	5		
Electric	Ft. Worth Substation	4171 Ft. Worth Dr.	*
Substations	Distribution Building #2		
Warehouse	Fulton Rental Property	1022 Ruddell St.	Not Occupied
Parks/Leisure	Goldfield Tennis Center	2009 W. Windsor	Not Occupied
Services			
Wastewater	Hickory Creek Control	FM 2181 Old Alton Rd.	*
Collection	Building		
Wastewater	Hickory Creek Lift	FM 2181 Old Alton Rd.	*
Collection	Station		
Electric	Hickory Substation	101 N. Bonnie Brae	*
Substations			
Electric	Hickory Substation	101 N. Bonnie Brae	*
Substations	New Control Building		
Electric	Hickory Substation	101 N. Bonnie Brae	*
Substations	Old Control Building		
Homeless	MKOC Shelter	300 Woodrow Ln.	Occupied
Shelter			
Recycling	Household Hazardous	1527 S. Mayhill	Not Occupied
5	Waste Building	Building 300	
Electric	Industrial Substation	Shady Oaks Dr.	*
Substations		, ,	
Electric	Industrial Substation	Shady Oaks Dr.	*
Substations	Distribution Building #1	, ,	
Electric	Industrial Substation	Shady Oaks Dr.	*
Substations	Distribution Building #2		
Electric	Jim Christal Substation	8401 Jim Christal Rd.	*
Substations	(Airport)		
Electric	Jim Christal Substation	8401 Jim Christal Rd.	*
Substations	Control Building		
Electric	Kings Row Substation	1988 Kings Row	*
Substations	C C	5	
Electric	Kings Row Substation	750 Precision Dr.	*
Substations	Distribution Building #1		
Electric	Kings Row Substation	750 Precision Dr.	*
Substations	Distribution Building #2		
Electric	Kings Row Substation	1988 Kings Row	*
Substations	Control Building		
Water	Lake Dallas Pumping	.25 miles W of I-35	*
Production	Station	(Country Ln.)	
LLWTP	Lake Lewisville Water		*
	Treatment Plant		
Water	Lake Ray Roberts	Chemical/Electrical	*
			1

Production	Pumping Station	Building	
		-	
Water	Lake Ray Roberts	Lake Ray Roberts	*
Production	Pumping Station	Outlet Works	
LRR WTP	Lake Ray Roberts		*
	Water Treatment Plant		
Landfill	Landfill Weigh Station	1527 S. Mayhill Rd.	Not Occupied
		#104	
Police – Animal	Linda McNatt Animal	3717 N. Elm St.	Occupied
Services	Care and Adoption		
	Center		
Water	LL WTP Backwash Tank	1701-B Spencer Rd.	*
Production			
Water	LL WTP Blower Building	1701-B Spencer Rd.	*
Production	_		
Water	LL WTP Caustic Mixing	1701-B Spencer Rd.	*
Production	Tank		
Water	LL WTP Chemical	1701-B Spencer Rd.	*
Production	Building #1		
Water	LL WTP Chemical	1701-B Spencer Rd.	*
Production	Building #2		
Water	LL WTP Chemical	1701-B Spencer Rd.	*
Production	Bulk Storage		
Water	LL WTP Clearwell #1	1701-B Spencer Rd.	*
Production			
Water	LL WTP Clearwell #2	1701-B Spencer Rd.	*
Production			
Water	LL WTP Clearwell #3	1701-B Spencer Rd.	*
Production			
Water	LL WTP Clearwell #4	1701-B Spencer Rd.	*
Production			
Water	LL WTP FL/LAS Building	1701-B Spencer Rd.	*
Production	g		
Water	LL WTP Liquid Oxygen	1701-B Spencer Rd.	*
Production	Area		
Water	LL WTP Maintenance	1701-B Spencer Rd.	Possibly
Production	Building		Occupied
Water	LL WTP Non-Chlorin-	1701-B Spencer Rd.	*
Production	ated		
	Backwash PS		
Water	LL WTP Operations	1701-B Spencer Rd.	Possibly
Production	Building		Occupied
Water	LL WTP Ozone Contact	1701-B Spencer Rd.	*
Production	And Destruct		
Water	LL WTP Ozone	1701-B Spencer Rd.	*
Production	Generator Building		
	Generator Building		

		4704 D 0	*
Water	LL WTP Rapid Mix Basin	1701-B Spencer Rd.	^
Production			
Water	LL WTP Washwater EQ	1701-B Spencer Rd.	*
Production	Basin		
Water	LL WTP Washwater	1701-B Spencer Rd.	*
Production	Recovery Basin		
Electric	Locust Substation	1304 S. Locust St.	*
Substations			
Electric	Locust Substation	1304 S. Locust St.	*
Substations	Control Building		
Electric	Locust Substation	1304 S. Locust St.	*
Substations	Portable Control Building		
Water	LRR WTP Admin	16525 Lake Ray	Possibly
Production	Building	Roberts Rd.	Occupied
Water	LRR WTP Backwash		*
		16525 Lake Ray	
Production	Blower	Roberts Rd.	*
Water	LRR WTP Chemical	16525 Lake Ray	
Production	Storage Tanks	Roberts Rd.	*
Water	LRR WTP Chlorine/	16525 Lake Ray	*
Production	Ammonia Scrubber	Roberts Rd.	
Water	LRR WTP Chlorine/	16525 Lake Ray	*
Production	Ammonia Storage	Roberts Rd.	
Water	LRR WTP Electrical	16525 Lake Ray	*
Production	Building	Roberts Rd.	
Water	LRR WTP Filter	16525 Lake Ray	*
Production		Roberts Rd.	
Water	LRR WTP Flocculation/	16525 Lake Ray	*
Production	Sedimentation Building	Roberts Rd.	
Water	LRR WTP Generators	16525 Lake Ray	*
Production		Roberts Rd.	
Water	LRR WTP High Service	16525 Lake Ray	*
Production	Pump Station	Roberts Rd.	
Water	RR WTP SBRS 1-2	5945 S. Florence Rd.	*
Reclamation			
Water	RR WTP SBRS 3-4	5945 S. Florence Rd.	*
Reclamation			
Water	RR WTP UV Disinfection	5945 S. Florence Rd.	*
Reclamation			
Water	RR WTP Water Tank	5945 S. Florence Rd.	*
Reclamation	Senier Citizer Center		Occupied
Parks/Leisure	Senior Citizen Center	509 N. Bell Ave.	Occupied
Services		004 T 01	
Materials	Service Center	801 Texas St.	Not Occupied
Management			
Parks/Leisure	Soccer Office and	3021A N. Bonnie Brae	Not Occupied

			-
Services	Concession Stand		
Parks/Leisure	Softball Concession	North Lakes Park	Not Occupied
Services	Stand		
Solid Waste	Solid Waste	1527 S. Mayhill Rd.	Not Occupied
Administration	Maintenance Building		
Solid Waste	Solid Waste Services	1527 S. Mayhill Rd.	Not Occupied
Administration	Building		
Library	South Branch Library	3228 Teasley Ln.	Not Occupied
South Branch			
Electric	Spencer Road Switch	1701 Spencer Rd.	*
Substations	Station		
Electric	Spencer Road Switch	1701 Spencer Rd.	*
Substations	Station Control Building		
Water	SW Booster Station	9800 John Payne Rd.	*
Production			
Water	SW Booster Station	9800 John Payne Rd.	*
Production	Ground Strg. Tank		
Electric	Teasley Substation	2428 Hickory Creek	*
Substations		Rd.	
Electric	Teasley Substation	2428 Hickory Creek	*
Substations	Distribution Building #1	Rd.	
Electric	Teasley Substation	2428 Hickory Creek	*
Substations	Distribution Building #2	Rd.	
Airport	T-Hanger	5000 Airport Rd.	Not Occupied
Street Patch/	Traffic Control	801 Texas St.	Occupied
Const.			
Solid Waste	Truck Wash	1521 S. Mayhill Rd.	Not Occupied
Administration		-	
Electric	Utility Office/Field	1701-C Spencer Rd.	Occupied
Operations	Operations	-	
Parks/Leisure	Water Works Park	2400 Long Rd.	Not Occupied
Services			
Electric	Woodrow Substation	Shady Oaks Dr.	*
Substations			
Electric	Woodrow Substation	Shady Oaks Dr.	*
Substations	Distribution Building #1		
Electric	Distribution Building #2	Shady Oaks Dr.	*
Substations	5		
*			

* These facilities will not be occupied at all times during a closure, but will have staff checking on the equipment to ensure systems continue running.

V. REGIONAL SURVEY

The EMC conducted a regional survey of DFW emergency managers on February 5, 2015 pertaining to any jurisdiction utilizing a specific "trigger" or "level" (as listed in Section IV) for delayed opening, early closure, or full closure. No respondent reported they use such a formula and the majority stated they implement inclement weather procedures based on a **case-by-case basis**. One respondent reported they utilize a "we never close" policy with non-essential staff provided the opportunity to utilize vacation day(s) if they are unable or unwilling to report to work during inclement weather conditions. The rest of the respondents utilized the case-by-case basis based on the severity of the storm for delayed opening, early closure, or full closure of government offices or educational institutions.

VI. CURRENT RESOURCES

A. General

The City of Denton resource management, in accordance with the NIMS, involves the application of tools, processes, and systems that allow for efficient and suitable resource allocations during an incident. Resources include personnel and facilities as well as equipment and supplies. In order to facilitate resource management, coordination activities should take place in the EOC setting.

B. Street Department

- 1. Equipment
 - a. Ice Storms

During an ice storm, the Street Department has six (6) large and two (2) small sanders that are dispatched when necessary to treat major street bridges, intersections and thoroughfares.

b. Snow Removal

If snowfall accumulations are in excess of two (2) inches, two (2) truck/snow blades (snow plow) and two (2) motor graders may be dispatched to assist with plowing operations.

The snow plow will first clear the designated primary routes and then be utilized for designated secondary streets. After those primary and secondary streets are open for vehicular traffic, the plow will then clear all remaining streets listed as time allows.

c. Additional Equipment

In the event of a severe ice and/or snow storm, the Street Department has additional equipment available:

Streets: six (6) crew trucks, six (6) dump trucks, two (2) utility trucks Drainage: five (5) crew trucks, three (3) dump trucks, one (1) trailer Traffic: four (4) crew trucks, two (2) utility trailers

2. <u>Material</u>

a. Sand

Manufactured sand is ordered annually in October for the upcoming severe weather season. Amounts are determined based on past history and predictions for the upcoming winter storm season. Sand is available from local vendors if extreme weather depletes the supply kept on-hand by the Street Department.

b. Magnesium Chloride

Magnesium chloride, also known as Meltdown 20/20, is utilized in conjunction with manufactured sand on bridges only.

3. Cots/Blankets

The EMC provided 75 cots and blankets to Materials Management. The cots and blankets were to be palletized and available for use by Street Department staff, as needed, during severe weather conditions when the road conditions are too hazardous to commute to and from work.

4. Mutual-Aid

The Street Department has coordinated with Jagoe Public to provide additional sand and to assist with clearing streets during future extreme severe weather events.

C. Parks and Recreation Department

The PARD is responsible for the snow and ice control for the majority of public buildings in the central business district and numerous outlying areas throughout the city. The PARD has identified several equipment purchases that are needed in order to better manage snow and ice removal at City buildings. These items are listed in Section VII. Equipment, Material, and Supplies Shortfalls. Currently, PARD dispatches staff to treat walkways prior to an ice event with a combination of granular ice melting material and liquid absorbing material to aid in the traction for pedestrians on City walkways. This is primarily done by hand and additional resources are needed to facilitate snow and ice removal at City facilities.

The parking lots that PARD maintains are divided into 2 Geographic Regions primarily North and South of McKinney Street. The North Region consists of – PARD portion of the Service Center, City Hall, City Hall East including the Police Department, City Hall West, Civic Center, Senior Center, North Lakes Recreation, Water Works Park, Emily Fowler Library, North Branch Library, and Gold Field Tennis Center. The South Region consists of – South Branch Library, Denia Recreation Center, Martin Luther King Jr. Recreation Center, the American Legion Center,

The Parking Lots are prioritized into a 3 Tier system:

- 1. Public Safety / City Administration / Operational Necessity
- 2. PARD Operational Necessity / Areas PARD has Secondary Responsibility
- 3. General City of Denton Facility

In addition to Ice Control duties, the PARD is responsible for removing storm debris on public property, damaged or hazardous trees, snow and ice that is subject to causing additional facility damage or debris that is in the way of crews facilitating traffic control or the restoration of city services.

The overall decision as to whether or not city facilities open on time, or at all, will be contingent upon an administrative decision due to the weather during each storm event.

D. Denton Enterprise Airport

Snow Equipment List:

- 10.5' Meyers SV-2 (Truck mounted plow)
- 16' 3600 TOWGA Tow-Behind Sweeptster (Tractor mounted broom)
- 18' HLA Snow Wing (Tractor mounted plow)
- Smart Tote 125 Liquid Deice Sprayer
- SnowEx Towable Solid Spreader

Snow and ice equipment is stored and maintained at the Airport Maintenance Facility. Vehicle maintenance is performed at the City of Denton Fleet Services. Equipment is inspected after each snow/ice event by the Airport.

E. Fire Department

Discussion was made regarding fire station personnel de-icing the station drives and ramps, particularly at Station 7.

F. EOC

The EOC keeps on-hand a supply of Heater Meals (MRE's) for use during extreme winter events or other emergency situations.

However, an additional supply to keep on-hand for crews performing work during severe weather situations would be advantageous.

VII. COMMUNICATION

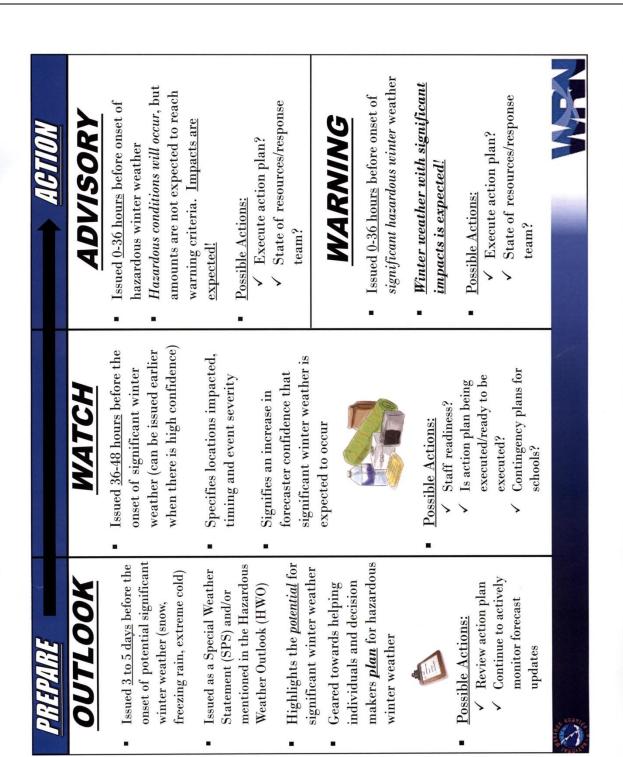
Fire Alarm/Dispatch will coordinate with the Street Department and TX DOT regarding icing conditions and areas of concern that are having frequent accidents/stranded motor-ists on local, state and federal highways located in the City.

A. Street Dispatch

940-349-7160

B. Texas Department of Transportation

TX DOT – Denton Office (940) 387-1414



IX. Severe weather Product Guide

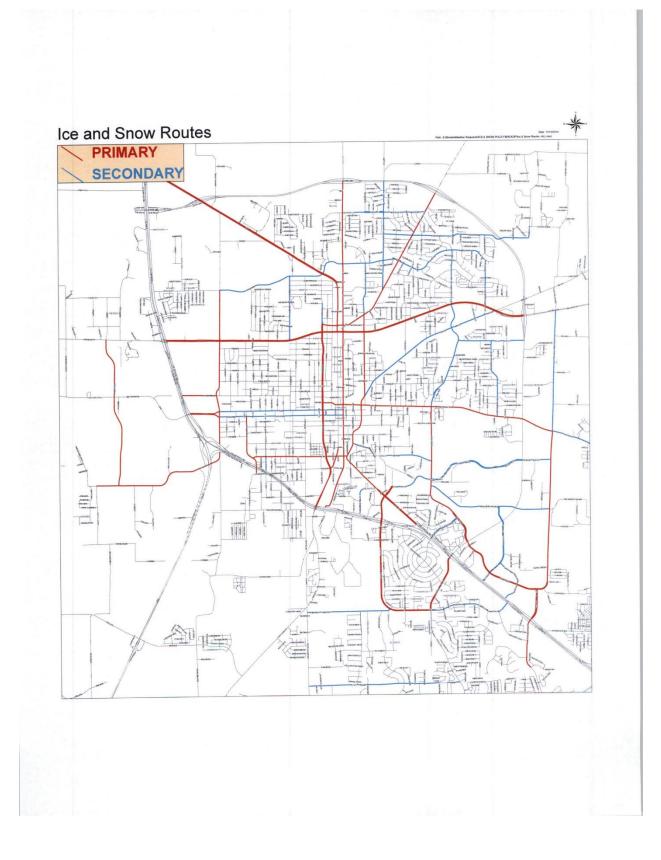
5/4/2022

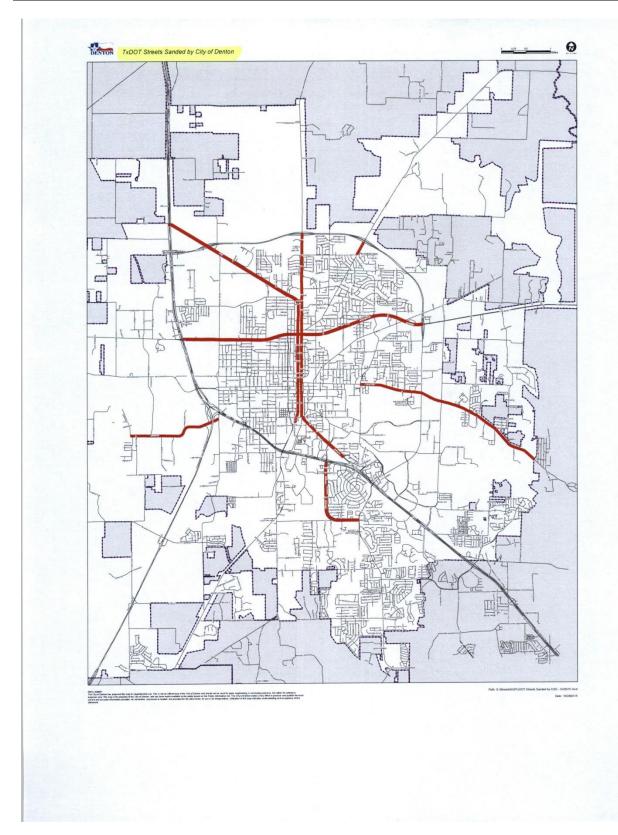
North Texas Winter Weather Product Guide

Product	Accumulation Criteria
Winter Storm Warning	Snow Accumulation > 4 in. <i>and/or</i> Freezing Rain Accumulation > 1/4 in. <i>and/or</i> Sleet Accumulation > 1/2 in. in 12 hours
Winter Storm Warning	Snow Accumulation ≥ 6 in. <i>and/or</i> Freezing Rain Accumulation ≥ 1/4 in. <i>and/or</i> Sleet Accumulation ≥ 1/2 in. in 24 hours
Ice Storm Warning	Freezing Rain Accumulation $\geq 1/4$ in. (Freezing Rain Exclusively)
Blizzard Warning	Sustained Winds or Frequent Gusts \geq 35 MPH accompanied by falling <i>and/or</i> blowing snow with reduced visibility of \leq 1/4 mile for 3 or more hours
Product	Accumulation Criteria
Winter Weather Advisory	Sleet Accumulation < 1/2 in. <i>and/or</i> Snow Accumulation < 4 in. <i>and/or</i> Freezing Rain <i>or</i> Freezing Drizzle Accumulation < 1/4 in.
Winter Weather Advisory	Blo
Freezing Rain Advisory	Freezing Rain <i>or</i> Freezing Drizzle Accumulation < 1/4 in. (Freezing Rain or Freezing Drizzle Exclusively)
Wind Chill Advisory	Wind Chill Temperatures < 0 °F
Product	
Winter Storm Watch	Moderate to High Confidence that Warning Criteria will be met
Blizzard Watch	Moderate to High Confidence that Warning Criteria will be met

Note: A Warning may be issued for Advisory-level accumulations if impacts are expected to be significant (e.g. during morning/evening rush hour or busy travel days).

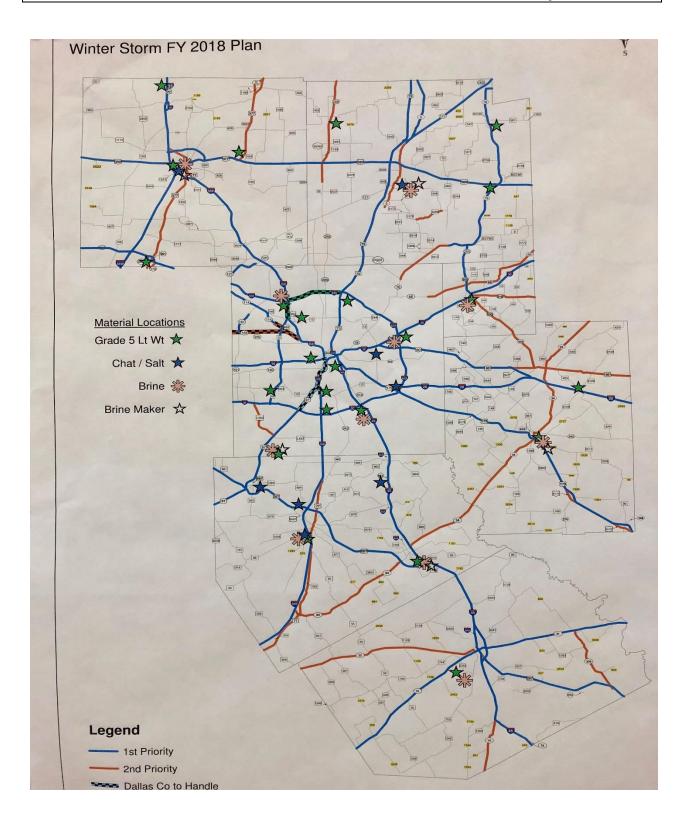
X. Street Department – Ice and Snow Routes & Priority





XI. TxDOT Streets Sanded by the City of Denton

XII. TxDOT Snow and Ice Removal Routes and Priority



	AIV. Faiks Department – City Faiking Lot Show/ice Removal Fhority			
No.	Name of Facility	Priority	Responsibility	
1	Airport – LESA (3000 sf)	1	Airport	
2	Airport Control Tower	1	Airport	
3	Airport Terminal	1	Airport	
4	City Hall	1	Parks	
5	City Hall East	1	Parks	
6	City Hall East Police	1	Parks	
7	Development Services Center (Old DATCU Building)	1	Parks	
8	Civic Center	1	Parks	
9	DME – Admin.	1	Parks	
10	DME – Engineering and System Ops.	1	Parks	
11	DME – Meter Bay	1	Parks	
12	DME – Large Garage	1	Parks	
13	DME – Systems Ops	1	Parks	
14	Service Center	1	Streets	
15	Traffic Control	1	Streets	
16	Truck Wash/Fuel Island	1	Streets	
17	American Legion North	2	Parks	
18	American Legion South	2	Parks	
19	Denia Recreation Center	2	Parks	
20	Facilities Management	2	Parks	
21	Fire Central (Station #1)	2	Parks Sec. Responsibility to Fire	
22	Station #2	2	Parks Sec. Responsibility to Fire	
23	Station #3	2	Parks Sec. Responsibility to Fire	
24	Station #4	2	Parks Sec. Responsibility to Fire	
25	Station #5	2	Parks Sec. Responsibility to Fire	
26	Station #6	2	Parks Sec. Responsibility to Fire	
27	Station #7	2	Parks Sec. Responsibility to Fire	
28	Fleet Services	2	Parks Sec. Responsibility to Fire	
29	Martin Luther King Jr. Rec Center	2	Parks	
30	North Lakes Recreation Center	2	Parks	
31	Senior Center	2	Parks	

XIV. Parks Department – City Parking Lot Snow/Ice Removal Priority

City of Denton

Snow and Ice Response Plan

32	Solid Waste	2	Solid Waste
33	Solid Waste Scale House	1	Solid Waste
34	Wastewater at Pecan Creek	2	Waste Water
35	Water Works	2	Parks
36	Animal Control	3	Parks Sec. Responsibility to
00			Animal Control
37	Avondale	3	Parks
38	Briarcliff	3	Parks
39	Campus Theatre	3	Parks
40	Carl Young	3	Parks
41	Chiller Tower	3	Facility Management
42	City Hall East Public Training	3	Parks
43	Denia North	3	Parks
44	Denia Softball	3	Parks
45	Evers North	3	Parks
46	Evers South	3	Parks
47	Exposition and Hickory St. Parking	3	Parks
48	Fred Moore	3	Parks
49	Fuel Station	3	Streets
50	Goldfield Tennis Center	3	Parks
51	Lake Forest	3	Parks
52	Library – Emily Fowler	3	Parks
53	Library – North Branch	3	Parks
54	Library – South Branch	3	Parks
55	Mack North	3	Parks
56	Mack South	3	Parks
57	McKenna	3	Parks
58	North Lakes Annex	3	Parks
59	North Lakes Park and Playground	3	Parks
60	North Lakes Soccer	3	Parks
61	North Lakes Softball	3	Parks
62	Police – Range	3	Parks
63	South Lakes	3	General Park Area

XV. BUILDING OPEN/CLOSURE CONTROLLED BY FM

No.	Name of Facility	Hours of Operation (on City of Denton Website)
1	Airport Control Tower	M-Su 6am-10pm
2	Airport – LESA (3000 sf)	M-F 8am-5pm
3	Airport Terminal	n/a
4	American Legion North	M-F 10am-3pm, Th 6-9pm
5	American Legion South	M-F 10am-3pm, Th 6-9pm
6	Animal Shelter (Linda McNatt)	M-Sa 8am-5pm
7	Chiller Tower	n/a
8	City Hall	M-F 8am-5pm
9	City Hall East	M-F 8am-5pm, Police 24/7/365
10	Development Services Center (Old DATCU Building)	M-F 8am-5pm
11	Civic Center	M-F 7:30am-7pm
12	Denia Recreation Center	M-W 7am-9pm, Th-F 7am-8pm, Sa 9:30am-3:30pm
13	DME – Admin.	M-F 7am-5pm
14	DME – Meter Bay	M-F 7am-5pm
15	DME – Monster Garage	n/a
16	DME – Engineer and	24/7/365
	Systems Ops	
17	DME – Systems Ops	M-F 7am-5pm
18	Facilities Management	M-F 7am-5pm
19	Fire Central (Station #1)	24/7/365
20	Station #2	24/7/365
21	Station #3	24/7/365
22	Station #4	24/7/365
23	Station #5	24/7/365
24	Station #6	24/7/365
25	Station #7	24/7/365
26	Fleet Services	Admin M-F 8am-5pm
		Shop M 7am-3:30pm, Tu-F 7am-10pm
27	Goldfield Tennis Center	M-Th 3-9pm, F 3-8pm, Sa 9am-5pm
28	Golf Center	M-Th 9am-9pm, F-Su 9am-8pm
29	Library – Emily Fowler	M/W/F/Sa 9am-6pm, T/Th 9am-9pm, Su 1-5pm
30	Library – North Branch	M-W 9am-9pm, Th-Sa 9am-6pm, Su 1-5pm
31	Library – South Branch	M 12-9pm, T/Th/F/Sa 9am-6pm, W 9am-9pm,
		Su 1-5pm
32	Martin Luther King Jr. Rec Center	M-F 9am-9pm, Sa 9:30am-6:30pm
33	North Lakes Annex	M-F 8am-5pm
34	North Lakes Rec Center	M-Th 5:30am-10pm, F 5:30am-9:30pm,
		Sa 7:30am-3:15pm
35	Police – Range	n/a
36	Senior Center	M-F 8am-9pm, Sa 9am-1pm

City of Denton **Snow and Ice Response Plan**

37	Service Center	M-F 7am-5pm
38	Truck Wash/Fuel Island	n/a
39	Solid Waste	M-F 8am-5pm
40	Solid Waste HCC	M-Su 7am-7pm
41	Solid Waste Scale House	M-F 7am-5pm, Sa 7am-4pm
42	Traffic Control	M-F 7am-3:30pm
43	Visual Arts Center	n/a
44	(Old Fire Central Building)	n/a
	Not leased but we maintain:	
45	Campus Theatre (27k sq. ft.)	n/a