# **Duke University**

# Campus Fire Safety Right-to-Know Act 2021 Annual Fire Safety Report

## **PURPOSE**

This annual report is submitted to meet the federal requirements of the Campus Fire Safety *Right-to-Know Act,* an amendment to the *Higher Education Opportunity Act*. It includes information about 2021 calendar-year campus fire safety policies and procedures as well as 2019-2021 reported campus fire statistics.

Printed copies of this report and the current 2021 Fire Statistics Report are available by visiting the OESO Fire & Life Safety Division, 2424 Erwin Road, Hock Plaza I, Suite 204, Durham, NC 27705 or by calling 919-684-5609.

View the 2021 Annual OESO Fire & Life Safety Division Report:

**Annual Fire Safety Report 2021** 

https://www.safety.duke.edu/sites/default/files/AFSR2021.pdf

View the Annual Clery Campus Security Report for 2022:

**Annual Clery Campus Security Report 2022** 

https://police.duke.edu/sites/default/files/2022DukeASR 0.pdf

## **FUNCTION**

The primary function of the Occupational and Environmental Safety Office (OESO) Fire & Life Safety Division is to ensure the safety of members of the Duke University & Duke University Health Systems community and the continuity of the university's mission by establishing optimal fire safety and fire emergency programs.

## POLICIES AND PROCEDURES

#### **FIRE ALARMS AND EVACUATION**

In the event of a fire, the most important thing is for you to evacuate the building safely. Make sure you familiarize yourself with the evacuation routes in your area.

Fire emergency response is defined by the acronym: **R.A.C.E.** 

#### **IF YOU DISCOVER A FIRE, SEE A FLAME OR SMOKE**, follow the RACE procedures:

**R** = Remove all persons in immediate danger to safety.

A = Activate manual fire alarm pull station AND call or have someone call 911.

**C** = Close doors and windows to prevent the spread of smoke and fire.

**E** = Extinguish the fire (if you are able) AND/OR Evacuate.

Never assume that a fire alarm is a drill or false alarm. Remain calm and evacuate the facility. Evacuation is mandatory for all individuals when the fire alarm is sounding. Anyone who fails to evacuate may face disciplinary action. Remember to follow the instructions of the emergency responders. Do not re-enter the facility until authorized. If you have any information regarding the alarm, present that information immediately to the responding emergency personnel.

Persons evacuating the building should report to their assigned Emergency Assembly Point(s), as directed by their supervisor or Resident Assistant/Coordinator.

#### **UPON DISCOVERY OF A FIRE**

Report all fires and smoke to Duke University Police Department by dialing 911 from any campus phone. If dialing from a personal cell phone or an off-campus telephone within Durham, the call will immediately reach the Durham Emergency Communications Center. The caller should first state they are on Duke Campus and then state the building name. In either case, each agency has instant communication with the other and calls can be immediately transferred from one to the other. Fires that have been extinguished should also be reported to Duke Police so that an investigation may be conducted. All residential building fires should also be subsequently reported to Housing and Residence Life (HRL): East 919-684-5320, Swift Quad 919-684-5813, and West 919-684-5486.

If you feel comfortable doing so, use a fire extinguisher to control or extinguish the fire while emergency personnel are responding to your location.

#### WHEN THE FIRE ALARM SOUNDS

Close all windows and doors (leave the overhead light on).

DO NOT use elevators. If hallways and/or exit stairwells are not accessible because of heavy smoke, return to your room and close the door. Open the window, hang a sheet or other light colored object out of the window to attract the attention of emergency personnel, and then close the window. If there is a phone in the room, call 911 (see above for specific instructions) and report that you are trapped. Remain calm and give your room number and building location. Stuff towels, sheets, or similar materials under all doors leading into corridors. Stay close to the floor if smoke enters the room. There is also a mobile app called Duke LiveSafe which provides quick call access to emergency contact information for 911 and Duke Police, as well as the ability to send a text message to Duke Police.

If you have exited the facility, stand clear of the building and report to your designated Emergency Assembly Point. Use caution in and around roadways and fire lanes. Emergency apparatus may be maneuvering around the building.

Follow the directions of fire and police personnel and **never** re-enter the building until they give permission to do so.

#### WITHIN STUDENT HOUSING FACILITIES

#### **ELECTRICAL WIRING and APPLIANCES**

Tampering with electrical wiring, including but not limited to the installation of direct-wired ceiling fans and unauthorized entry into electrical panel boxes, is prohibited. Residents are responsible for any damages caused by electrical appliances that are not owned by Duke University.

All electrical appliances shall be UL® approved and maintained in good condition. Numerous electrical devices plugged into one outlet through an outlet cube or extension cord may cause a circuit overload or may cause overheating of the electrical appliances, resulting in a fire. Therefore, the use of outlet cubes or extension cords is prohibited. Use a power strip with a built-in circuit breaker.

Heat producing appliances (e.g. coffee pots, steam irons, hair curling irons, etc.) should never be plugged into multi-plug adaptors, extension cords, or power strips and should never be left unattended.

Portable space heaters are prohibited unless authorized by Housing and Residence Life (HRL).

#### **HALOGEN LIGHTS and LAVA LAMPS**

OESO Fire & Life Safety Division and Housing and Residence Life (HRL) prohibit halogen lights and lava lamps in residential areas. The very high temperatures reached by their bulbs constitute a fire hazard and a potential source of burns. In addition, the geometry of the floor model lamp tends to make them very unstable and easily tipped over.

#### **SMOKING** and **VAPING**

Duke University seeks to preserve a living and working environment supportive of behaviors that contribute to the physical health and well-being of all community members. Neither smoking nor vaping of any substance is permitted on any Duke University or Duke University Health System property or grounds.

#### **OPEN FLAMES**

It is a violation of university policy to light any material on fire on campus. Candles, other open flame devices, and incense are strictly forbidden for use inside University facilities. Battery or electrically powered candles will be used except when a religious activity specifically requires the use of a live flame. Students and groups will be held financially accountable for any damage they cause as a result of violating this policy and will be referred to the disciplinary process. Additionally, students may be subject to revocation of their Housing License for any violation of this policy.

Those individuals wishing to utilize live flame candles in observance of a religious holiday should contact Religious Life at Duke or Jewish Life at Duke for guidance. OESO Fire & Life Safety Division will not accept requests directly from students. OESO Fire & Life Safety Division will provide information concerning fire prevention directly to Religious Life at Duke and Jewish Life at Duke. Use of candles will not be permitted inside any residential facilities. Requests for use of live flame candles in outdoor locations need to follow the same process and are subject to approval on a case by case basis. All personnel should know the location of building fire equipment to include fire extinguishers and manual fire alarm pull stations.

#### SPECIAL EVENT PROCEDURES – OESO FIRE & LIFE SAFETY DIVISION

OESO Fire & Life Safety Division staff works closely with other campus groups to ensure safety and compliance for over 60 campus events during a typical calendar year. At various times throughout 2021, some of these activities were cancelled or restricted due to COVID-19. However, OESO Fire & Life Safety Division employees monitored an increase in the use of tents. They also continued to attend athletic games to ensure compliance with the NC Fire Code - specifically, maintaining clear aisles and egress paths, and providing instant response in the event of a fire alarm activation.

### **EMERGENCY RESPONSE**

#### **INCIDENT REPORTING AND RESPONSE**

Students, employees, and visitors must immediately report any fire or other emergency directly to Duke Police.

Likewise, if a member of the Duke community finds evidence of a fire that has been extinguished, and the person is not sure whether Duke Police has already responded, the community member should immediately notify Duke Police to investigate and document the incident. Housing & Residence Life should also be contacted as detailed on page 2.

For non-emergency calls to Duke Police, dial 919-684-2444. We encourage students and employees to put this non-emergency number into their cell phones as a speed dial entry.

There is also a mobile app called Duke LiveSafe which provides quick call access to emergency contact information for 911 and Duke Police, as well as the ability to send a text message to Duke Police.

#### OESO FIRE & LIFE SAFETY DIVISION - FIRE EMERGENCY RESPONSE PLAN ("10-80")

The OESO Fire & Life Safety Division established a fire emergency program which augmented the university's capabilities to better protect students, staff, faculty, and visitors. During normal duty-hours, OESO Fire & Life Safety Division staff monitor emergency radios and respond to fire alarm and fire emergency situation calls on campus, including clinics, research buildings, and the hospital. The goal is to provide assistance to responding police and fire units early into an emergency as needed to save lives and protect university assets. Staff members are trained to monitor radio traffic and read a fire alarm panel. For incidents after normal working hours, Duke Police will contact appropriate on-call personnel. The program has been active and successful and will be continued for the upcoming year.

The major benefit of this program is that early arrival or communication at an emergency can reduce human injury and minimize university losses. In many instances, the OESO Fire & Life Safety Division staff provides initial vital information before the arrival of emergency services (which can take 5-10 minutes). The staff works closely with Duke Police and the Durham Fire Department and has established a close collaboration with those groups.

#### MARINE LAB / OFF CAMPUS LOCATIONS

OESO Fire & Life Safety Division staff educates the Duke University Marine Lab (DUML) employees on fire and emergency procedures including annual hands-on fire extinguisher training. The specialized training for the Marine Lab's staff is necessary in the event of a building emergency or wildfire that may threaten the Duke University Marine Lab facilities where emergency assistance may be minimal, delayed, or unavailable. Under normal conditions, OESO Fire & Life Safety Division staff also conducts annual fire safety surveys and fire drills on all residential DUML buildings. However, DUML staff conducted all of the drills in 2021 due to COVID-19 program modifications.

## TRAINING AND EDUCATION

#### **STUDENT TRAINING**

Despite COVID-19 constraints, OESO Fire & Life Safety Division continues to provide education during fire drill training and throughout the year when OESO Fire & Life Safety Division reviews special conditions and requests.

#### FIRE DRILL TRAINING

OESO Fire & Life Safety Division staff conducts four student housing fire drills per year (two each semester). They go on-site to supervise all aspects of the drills, including observation, evaluation, and documentation. The standard procedure entails activating the fire alarm system, usually by engaging a student volunteer to use a manual fire alarm pull station.

All students, faculty, staff, and visitors must exit the building and meet at the Emergency Assembly Point (EAP). Occupants are then briefed on their performance of evacuating the building, ways in which to improve evacuation, how to activate a manual fire alarm pull station, what to do in the event of a real fire, and how to use a fire extinguisher.

In 2021, there were 152 drills consisting of 136 for the main campus and 16 for Marine Lab.

OESO Fire & Life Safety Division maintains formal documentation of all campus and Marine Lab fire drills.

#### ADDITIONAL TRAINING INFORMATION

The OESO Fire & Life Safety Division web site home page also provides pertinent facts related to fire and life safety. Information ranges from guiding principles to programs and policies. Our staff is readily available to review and answer any questions or concerns.

#### **OESO FIRE & LIFE SAFETY DIVISION STAFF ADVANCED EDUCATION**

OESO Fire & Life Safety Division staff continues to enhance their skills, qualifications, and competencies through advanced continuing education opportunities. Courses included IBC Safety Code Updates, Collaborating on Construction During Virtual Times, Delivering Fire Safety Training During A Pandemic, COVID and HVAC Systems, Changing Reopening Strategies, NFPA® 25 Water-Based Fire Protection, NFPA® 72 Testing & Inspection of Fire Alarm Systems, and other topics related to COVID-19. Staff members completed annual North Carolina Crowd Manager Training.

#### FIRE EXTINGUISHER TRAINING PROGRAM

The already successful fire extinguisher program continues to excel. The program enhances the ability to reasonably ensure that fire extinguishers are in place and in proper working order should the need for one arise. OESO Fire & Life Safety Division manages a very large fire extinguisher inspection program for over 8,100 extinguishers. Duke has also adopted the en-Gauge electronic fire extinguisher monitoring system in some newer facilities.

In addition to the live-fire hands-on equipment, a video simulator is available for training during inclement weather. During the calendar year, 13 persons at Duke Marine Lab received hands-on fire extinguisher training with the video training system. All other hands-on training was suspended due to COVID-19 factors.

All documentation for inspections and hands-on training is located at the OESO Fire & Life Safety Division office.

All students, staff and faculty are encouraged to utilize the Duke method of reporting a fire and using a fire extinguisher using the acronyms **R.A.C.E.** and **P.A.S.S.** respectively.

**R.A.C.E.** = **R**emove all persons from danger; **A**ctivate the manual fire alarm pull station and dial 911; **C**lose all doors and windows; **E**xtinguish the fire and/or **E**vacuate the building.

**P.A.S.S.** = **Pull** the pin; **A**im the nozzle at the base of the fire; **S**queeze the handle; **S**weep from side to side.

**Table 1** - Fire Extinguisher Training Sessions –2021

	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec
University –Number of Trainees	0	0	0	0	0	0	0	13	0	0	0	0
University – Classes	0	0	0	0	0	0	0	1	0	0	0	0

## **FIRE SAFETY SYSTEMS**

#### STUDENT HOUSING FIRE SAFETY EQUIPMENT

Each student housing area is equipped with fire extinguishers in the corridors, kitchens, and laundry rooms.

The manual fire alarm pull stations are located by each required exit and stairwell door. All corridors are protected by automatic smoke detectors tied directly into the building fire alarm system. An activation of the fire alarm system will initiate the notification devices: strobes, horns, and/or voice evacuation, as well as automatically notify Duke Police.

Residential facilities are equipped with corridor smoke detectors and sleeping rooms are protected by several different methods. Bell Tower, Crowell, Few, Hollows A & B, Keohane, the renovated sections of Kilgo, Smart House, Southgate, and Trinity are equipped with system smoke detectors tied into the monitored fire alarm system. Blackwell and Randolph have stand-alone direct wired AC/DC powered smoke detectors which are not monitored. All other student housing sleeping areas are equipped with battery powered smoke alarms which are tested and maintained annually.

The following student housing areas are also protected by an automatic sprinkler system: Bell Tower, Blackwell, Craven, Crowell, East Residence Hall, Epworth, Few, Hollows A & B, Keohane (4A, B, D & E), Kilgo, Randolph, Smart House, Southgate, Trinity, West Residence Hall, and 300 Swift Ave. As of December 31, 2021, 56 percent of the residential housing facilities on the main campus have sprinkler protection. The sprinkler systems are tested each quarter.

Fire alarm systems in all housing facilities are monitored by Duke Police, except 301 Swift Ave which is not monitored.

(See Table 2 for complete 2021 dormitory-specific fire safety systems features)

**Table 2**–Student Housing 2021 Fire Safety System Features

Building Name	Address	Sprinklered	Fire Extinguishers	Fire Alarm	# of Fire Drills
300 Swift Ave	300 Swift Ave	Yes	Yes	Yes	4 Annually
301 Swift Ave	301 Swift Ave	No	Yes	Spot Detector	none
Townhouse Apts				– local	
Alspaugh	1344 Campus Dr.	No	Yes	Yes	4 Annually
Bassett	1332 Campus Dr.	No	Yes	Yes	4 Annually
Bell Tower	40 Brodie Gym Dr.	Yes	Yes	Yes	4 Annually
Blackwell	51 Brodie Gym Dr.	Yes	Yes	Yes	4 Annually
Brown	1328 Campus Dr.	No	Yes	Yes	4 Annually
Craven Quad	440 Chapel Dr.	Yes	Yes	Yes	4 Annually
Crowell Quad	315 Towerview Dr.	Yes	Yes	Yes	4 Annually
East Residence Hall	1312 Campus Dr.	Yes	Yes	Yes	2 Fall Semester*
Edens 1A	419 Towerview Dr.	No	Yes	Yes	4 Annually
Edens 1B	415 Towerview Dr.	No	Yes	Yes	4 Annually
Edens 1C	423 Towerview Dr.	No	Yes	Yes	4 Annually
Edens 2A	113 Edens Dr.	No	Yes	Yes	4 Annually
Edens 2C	117 Edens Dr.	No	Yes	Yes	4 Annually
Edens 3A	109 Edens Dr.	No	Yes	Yes	4 Annually
(Decker Tower)					·
Edens 3B	105 Edens Dr.	No	Yes	Yes	4 Annually
(Mitchell Tower)	0.5 .1.5 .				
Epworth	2 Epworth Dorm La.	Yes	Yes	Yes	4 Annually
Few Quad	420 Chapel Dr.	Yes	Yes	Yes	4 Annually
Giles	1352 Campus Dr.	No	Yes	Yes	4 Annually
Gilbert-Addoms	1638 Campus Dr.	No	Yes	Yes	4 Annually
Hollows A	407 Towerview Dr.	Yes	Yes	Yes	4 Annually
Hollows B	409 Towerview Dr.	Yes	Yes	Yes	4 Annually
Keohane 4A	101 Wannamaker Dr.	Yes	Yes	Yes	4 Annually
Keohane 4B	101 Wannamaker Dr.	Yes	Yes	Yes	4 Annually
Keohane 4D	101 Wannamaker Dr.	Yes	Yes	Yes	4 Annually
Keohane 4E	427 Towerview Dr.	Yes	Yes	Yes	4 Annually
Kilgo Quad	104 Union Dr.	Yes	Yes	Yes	4 Annually
Pegram	1340 Campus Dr.	No	Yes	Yes	4 Annually
Randolph	50 Brodie Gym Dr.	Yes	Yes	Yes	4 Annually
Smart House	1402 Faber St.	Yes	Yes	Yes	4 Annually
Southgate	1400 W. Main St.	Yes	Yes	Yes	4 Annually
Trinity	610 Broad St.	Yes	Yes	Yes	4 Annually
Wannamaker	102 Wannamaker Dr.	No	Yes	Yes	4 Annually
West Residence Hall	1360 Campus Dr.	Yes	Yes	Yes	2 Fall Semester*
Wilson	1320 Campus Dr.	No	Yes	Yes	4 Annually
*C+ \ \ \ \+ D:-		COV/ID 40 :-			

<sup>\*</sup>East and West Residence Halls were used as COVID-19 isolation facilities until July 2021, then normal use.

<sup>300</sup> Swift Ave, 301 Swift Ave, and Smart House are grouped as "Swift Quad." All other Central Campus Apartments were decommissioned and demolished in 2019.

Building Name	Address	Sprink-	Fire	Fire	Smoke	# of Fire
		lered	Extinguishers	Alarm	Detectors	Drills
Marine Lab Dorm #1	135 Duke Marine	No	Yes	Yes	Yes	5
	Lab Rd.					Annually
Marine Lab Dorm #2	135 Duke Marine	No	Yes	Yes	Yes	5
	Lab Rd.					Annually
Marine Lab Dorm #3	135 Duke Marine	No	Yes	Yes	Yes	5
	Lab Rd.					Annually
Marine Lab Dorm #4	135 Duke Marine	No	Yes	Yes	Yes	5
	Lab Rd.					Annually
Marine Lab Dorm #5	135 Duke Marine	No	Yes	Yes	Yes	5
	Lab Rd.					Annually
Marine Lab Dorm #6	135 Duke Marine	No	Yes	Yes	Yes	5
	Lab Rd.					Annually

The number of dorms in use and corresponding fire drills were modified due to COVID-19 factors. During 2021, a total of 16 drills were done in the various dorms.

#### DAMAGING OR TAMPERING WITH FIRE SAFETY EQUIPMENT

Relocating, removing, tampering with, or destroying smoke detectors or fire safety equipment is strictly prohibited. Damage and/or theft of fire equipment are punishable under North Carolina State statute.

Intentional false alarms, damage, theft, and misuse of fire detection, alarm, and extinguishing equipment are punishable under the criminal law provision of the North Carolina Statute 14-286 and may result in the loss of housing privileges and/or disciplinary action. In addition, residents will be charged for fire damage resulting from neglect or intentional actions.

If a resident or staff member notices any damaged, missing, or malfunctioning equipment, they should immediately report the deficiency to Housing and Residence Life (HRL) or OESO Fire & Life Safety Division.

#### **IMPAIRMENT PROGRAM**

The Fire Protection Impairment Program provides effective management for the safe shutdown of fire protection systems, control of potential fire hazards during the impairment, and restoration of the fire protection system to service as soon as possible. This vital program requires coordination between OESO Fire & Life Safety Division, construction managers, Duke University Police Department, and the Durham Fire Department.

## **STUDENT HOUSING - INCIDENTS**

#### **DEPARTMENT OF EDUCATION 2021-REPORTED STATISTICS**

Table 3, located on the following pages, contains fire incidents that occurred in student housing during the three year period from 2019-2021. This information is required to be submitted to the Department of Education. Additional information on the Campus Fire Safety Right to Know Act and the 2021 Fire Statistics Report can be found by visiting the OESO Fire & Life Safety Division website at:

http://www.safety.duke.edu/fire-life-safety/campus-fire-safety-right-know-act

 Table 3 - Department of Education 2021-Reported Statistics

## FIRE STATISTICS FOR STUDENT HOUSING

## 2021 MAIN CAMPUS

				Estimated	Estimated		
	# of			Property	Content		# of
Name of Facility	Fires	Date	Cause	Damage	Damages	# Injured	Deaths
Alspaugh							
1344 Campus Dr.	1	02/25/21	Unintentional-cooking	\$20,992	\$194	0	0
Bassett							
1332 Campus Dr.	0						
Bell Tower							
40 Brodie Gym Dr.	0						
Blackwell							
51 Brodie Gym Dr.	0						
Brown							
1328 Campus Dr.	0						
Craven Quad							
440 Chapel Dr.	0						
Crowell Quad,							
315 Towerview Dr.	0						
East Residence Hall,							
1312 Campus Dr.	0						
Edens 1A							
419 Towerview Dr.	0						
Edens 1B							
415 Towerview Dr.	0						
Edens 1C							
423 Towerview Dr.	0						
Edens 2A							
113 Edens Dr.	0						
Edens 2C							
117 Edens Dr.	0						
Edens 3A							
109 Edens Dr.	0						
Edens 3B							
105 Edens Dr.	0						
Epworth							
2 Epworth La.	0						
Few Quad							
420 Chapel Dr.	0						
Giles							
1352 Campus Dr.	0						

			2021				
			MAIN CAMPUS				
Name of Facility	# of Fires	Date	Cause	Estimated Property Damage	Estimated Content Damages	# Injured	# of Deaths
Gilbert-Addoms							
1638 Campus Dr.	0						
Hollows A							
407 Towerview Dr.	0						
Hollows B							
409 Towerview Dr.	0						
Keohane 4A							
101 Wannamaker Dr.	0						
Keohane 4B							
101 Wannamaker Dr.	0						
Keohane 4D							
101 Wannamaker Dr.	0						
Keohane 4E							
427 Towerview Dr.	0						
Kilgo Quad							
104 Union Dr.	0						
Pegram							
1340 Campus Dr.	0						
Randolph							
50 Brodie Gym Dr.	0						
Southgate							
1400 W. Main St.	0						
Smart House							
1402 Faber St.	0						
Trinity			Intentional-under				
610 Broad St.	1	02/07/21	investigation	\$1200	0	0	0
Wannamaker							
102 Wannamaker Dr.	0						
West Residence Hall							
1360 Campus Dr.	0						
Wilson							
1320 Campus Dr.	0						
300 Swift Ave	0						
301 Swift Ave.	0						

			2021 - MARINE LAB				
Name of Facility	# of Fires	Date	Cause	Estimated Property Damage	Estimated Content Damages	# Injured	# of Deaths
Dorm #1					3		
135 Duke Marine Lab Rd.	0						
Dorm #2							
135 Duke Marine Lab Rd.	0						
Dorm #3							
135 Duke Marine Lab Rd.	0						
Dorm #4							
135 Duke Marine Lab Rd.	0						
Dorm #5							
135 Duke Marine Lab Rd.	0						
Dorm #6							
135 Duke Marine Lab Rd.	0						

# FIRE STATISTICS FOR STUDENT HOUSING

## 2020 MAIN CAMPUS

				Estimated	Estimated		
Name of Facility	# of Fires	Data	Course	Property	Content	# Injured	# of Deaths
Alspaugh	Fires	Date	Cause	Damage	Damages	# Injured	Deaths
1344 Campus Dr.	0						
Bassett	0						
1332 Campus Dr.	0						
Bell Tower	- ·						
40 Brodie Gym Dr.	0						
Blackwell	- ·						
51 Brodie Gym Dr.	0						
Brown							
1328 Campus Dr.	0						
Craven Quad							
440 Chapel Dr.	0						
Crowell Quad,	U						
315 Towerview Dr.	1	09/12/20	Unintentional-cooking	0	0	0	0
East Residence Hall,		03/12/20	Offitter trond cooking				0
1312 Campus Dr.	0						
Edens 1A	U						
419 Towerview Dr.	0						
Edens 1B							
415 Towerview Dr.	0						
Edens 1C							
423 Towerview Dr.	0						
Edens 2A							
113 Edens Dr.	0						
Edens 2C							
117 Edens Dr.	0						
Edens 3A							
109 Edens Dr.	1	09/21/20	Unintentional-cooking	0	0	0	0
Edens 3B			<u> </u>				
105 Edens Dr.	0						
Epworth							
2 Epworth La.	0						
Few Quad							
420 Chapel Dr.	0						
Giles							
1352 Campus Dr.	0						

			2020				
			MAIN CAMPUS				
Name of Facility	# of Fires	Date	Cause	Estimated Property Damage	Estimated Content Damages	# Injured	# of Deaths
Gilbert-Addoms							
1638 Campus Dr.	0						
Hollows A							
407 Towerview Dr.	0						
Hollows B							
409 Towerview Dr.	0						
Keohane 4A 101 Wannamaker Dr.	0						
Keohane 4B							
101 Wannamaker Dr.	0						
Keohane 4D							
101 Wannamaker Dr.	0						
Keohane 4E							
427 Towerview Dr.	0						
Kilgo Quad							
104 Union Dr.	0						
Pegram							
1340 Campus Dr.	0						
Randolph							
50 Brodie Gym Dr.	0						
Southgate							
1400 W. Main St.	0						
Smart House							
1402 Faber St.	0						
Trinity							
610 Broad St.	0						
Wannamaker							
102 Wannamaker Dr.	0						
West Residence Hall							
1360 Campus Dr.	0						
Wilson							
1320 Campus Dr.	0						
300 Swift Ave	0						
301 Swift Ave.	0						

			2020 - MARINE LAB				
Name of Facility	# of Fires	Date	Cause	Estimated Property Damage	Estimated Content Damages	# Injured	# of Deaths
Dorm #1					3		
135 Duke Marine Lab Rd.	0						
Dorm #2							
135 Duke Marine Lab Rd.	0						
Dorm #3							
135 Duke Marine Lab Rd.	0						
Dorm #4							
135 Duke Marine Lab Rd.	0						
Dorm #5							
135 Duke Marine Lab Rd.	0						
Dorm #6							
135 Duke Marine Lab Rd.	0						

# FIRE STATISTICS FOR STUDENT HOUSING

## 2019 MAIN CAMPUS

				Estimated	Estimated		
	# of			Property	Content		# of
Name of Facility	Fires	Date	Cause	Damage	Damages	# Injured	Deaths
Alspaugh					_		
1344 Campus Dr.	0						
Bassett							
1332 Campus Dr.	0						
Bell Tower							
40 Brodie Gym Dr.	0						
Blackwell			Intentional-under				
51 Brodie Gym Dr.	1	02/03/2019	investigation	\$35	0	0	0
Brown							
1328 Campus Dr.	0						
Craven Quad							
440 Chapel Dr.	0						
Crowell Quad,							
315 Towerview Dr.	0						
East Residence Hall,							
1312 Campus Dr.	0						
Edens 1A							
419 Towerview Dr.	0						
Edens 1B							
415 Towerview Dr.	0						
Edens 1C							
423 Towerview Dr.	0						
Edens 2A							
113 Edens Dr.	0						
Edens 2C							
117 Edens Dr.	0						
Edens 3A							
109 Edens Dr.	0						
Edens 3B							
105 Edens Dr.	0						
Epworth							
2 Epworth La.	0						
Few Quad							
420 Chapel Dr.	0						
Giles							
1352 Campus Dr.	0						

Name of Facility				2019				
H of   Date   Cause   Property   Content   H of   Death				MAIN CAMPUS				
Gilbert-Addoms 1638 Campus Dr. Hollows A 407 Towerview Dr. Hollows B 409 Towerview Dr. Keohane 4A 101 Wannamaker Dr. Keohane 4B 101 Wannamaker Dr. O Keohane 4E 427 Towerview Dr. O Kigo Quad 104 Union Dr. O Pegram 1340 Campus Dr. O Randolph 50 Brodie Gym Dr. Southgate 1400 W. Main St. Smart House 1402 Faber St. Trinity G10 Broad St. D 1 04/07/2019 Unintentional-cooking O 0 Wannamaker D 0 West Residence Hall 1360 Campus Dr. O West Residence Hall 1360 Campus Dr. O U Wilson	Name of Facility		Doto	Course	Property	Content	# Injured	
1638 Campus Dr.		Fires	Date	Cause	Damage	Damages	# Injured	Deaths
Hollows A   407 Towerview Dr.		0						
Hollows B	•							
409 Towerview Dr.   0	407 Towerview Dr.	0						
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1712 Pace St. 0	1712 Pace St.	0						
1809 Erwin Rd. 0	1809 Erwin Rd.	0						
1901 Erwin Rd. 0								
1905 Erwin Rd. 0								
1907 Erwin Rd. 0								
1909 Yearby Ave 0								
1911 Erwin Rd. 0	·							

			2019				
			MAIN CAMPUS				
Name of Facility	# of Fires	Date	Cause	Estimated Property Damage	Estimated Content Damages	# Injured	# of Deaths
1911 Yearby Ave.	0						
1913 Erwin Rd.	0						
1914 Lewis St.	0						
1915 Erwin Rd.	0						
1915 Yearby Ave.	0						
2011 Yearby Ave.	0						
2015 Yearby Ave.	0						
201 Alexander Ave.	0						
202 Alexander Ave.	0						
204 Alexander Ave.	0						
205 Alexander Ave.	0						
205 Oregon St.	0						
206 Alexander Ave.	0						
206 Oregon St.	0						
209 Alexander Ave.	0						
209 Anderson St.	0						
210 Alexander Ave.	0						
215 Alexander Ave.	0						
215 Anderson St.	0						
220 Alexander Ave.	0						
221 Anderson St.	0						
301 Oregon St.	0						
300 Swift Ave	0						
301 Swift Ave.	0						
302 Anderson St.	0						
302 Oregon St.	0						
304 Anderson St.	0						
312 Anderson St.	0						
314 Anderson St.	0						

			2019 - MARINE LAB				
Name of Facility	# of Fires	Date	Cause	Estimated Property Damage	Estimated Content Damages	# Injured	# of Deaths
Dorm #1				J	<u> </u>		
135 Duke Marine Lab Rd.	0						
Dorm #2							
135 Duke Marine Lab Rd.	0						
Dorm #3							
135 Duke Marine Lab Rd.	0						
Dorm #4							
135 Duke Marine Lab Rd.	0						
Dorm #5							
135 Duke Marine Lab Rd.	0						
Dorm #6							
135 Duke Marine Lab Rd.	0						

## PLANS FOR THE FUTURE:

#### **NEW CONSTRUCTION:**

Duke University continues to incorporate state-of-the-art fire and life safety technology in new construction. Since 2013, en-Gauge Electronically Monitored Fire Extinguisher Systems were installed in various buildings on Campus including Baldwin Auditorium, Perkins Library, and Rubenstein Arts Center. The system provides a signal the moment an extinguisher is removed, when an extinguisher falls out of pressure range, and/or when access to the extinguisher is continually blocked. This low cost, simple to install device saves inspection time and enables OESO Fire & Life Safety Division to focus valuable resources on other pressing issues while remaining in compliance with NFPA 10 and NFPA 72. Video smoke detection units were installed in electrical and storage rooms in the West Campus Steam Plant.

In 2021, new construction was suspended. However, renovations were completed at Undergraduate Admissions (2138 Campus Drive) and Graduate School Offices (2127 Campus Drive). Other attention was shifted to general repair projects.

New work is pending at Gilbert-Addoms Upgrades and Sprinkler Addition and the Legacy Building.

#### **FUTURE CHALLENGES:**

Key challenges include:

- Emergency Assembly Point (EAP) Designated Evacuation Zones: Planning must be continually re-evaluated to ensure continuity of the university and its mission.
- As the university continues to grow, there is a challenge in providing service to more units and locations.
- As the university is a 24/7 campus, there is a challenge in ensuring coverage of the myriad of after-hours and weekend activities.

#### **CURRENT STATUS OF PROGRAMS AND FUTURE PLANS:**

Despite COVID-19 constraints, there were ongoing efforts during the past year to promote greater fire safety awareness and emergency preparedness. OESO Fire & Life Safety Division continued to develop and refine internal policies and programs while maintaining alignment with the North Carolina Fire Code. These efforts bring the university closer to the goal of comprehensive preparedness.

Therefore, Duke University has implemented a wide range of safeguards to lower the risk and the potential repercussions of fire on campus. OESO Fire & Life Safety Division, Student Affairs, Duke Police, and Durham Fire Department all work in concert to help ensure a fire-safe environment for students, faculty, staff, and campus visitors. Still, it is everyone's responsibility to reduce fire hazards and keep Duke University as safe as possible from the threat of fire.

Current status of University-wide initiatives are summarized below:

- Emergency management: Emergency management teams are in place and trained. Continuous training is needed to
  ensure that teams are well prepared to implement all required emergency action plans and that sufficient backup
  personnel for emergency managers and key executives are in place.
- o The University works closely with local and state agencies to coordinate fire and life safety programs.
- Emergency response in departments: Outstanding progress has been made training department personnel in procedures, and Duke continues to provide training in an effort to reach all work groups.
- Emergency equipment and supplies: The University continually invests in emergency equipment and supplies and continues to replenish the supplies as needed.
- Building emergency floor wardens: Several Duke University buildings now have individuals trained in basic emergency procedures and floor warden duties. However, these individuals will need to continue annual training to ensure they react properly in an emergency. Training will also extend to new employees to keep up with the average staff turnover ratio.
- Public education on emergency procedures: In this area, a great deal has been accomplished; many students, staff
  and faculty are aware of basic emergency procedures. Much has been developed in terms of publications, websites,
  or other educational campaigns for the campus community. Ongoing efforts continue because of the average
  student and staff turnover ratio.
- Although emergency preparedness needs to remain a top priority, fire prevention and safety programs also need to be emphasized over time to ensure optimal life safety and compliance. As we move forward, we must continue to make progress toward becoming a disaster-resistant university and build a reputation as one of the safest campuses in America.