CRISIS MANAGEMENT PLAN
IMPLEMPNTING PROCEDURE
EDE - 9
"Environmental Monitoring for Emergency Conditions for McGuire Nuclear Station"


Rev, 10
January 16, 1992

### 1.0 PURPOSE:

> 1.1 To provide a systematic method for idontifying airborne plumes or Liquid effiuents, and obtaining field data indicative of the radiation exposure to the general public, following a release of radioactive material.

### 2.0 REFERENCES

2.1 Station . Hrac "e 3.8.1 "Site Assembly and Evacuation".

 Radioiodine Relcase".
2.4 Station RaGiation Protection Manual; Section 15.21, "Set-Up and Operation of the Quantum Portable MCA System"
> 2.5 PT/0/A/4600/11 (A, B,C), "Function Check of Emergency "ehicle and Equipment."
2.6 Crisis Management Implementing Procedures, CMIP-7, "Radiological Assessment Group Implementing Procedure."
2.7 Crisis Management Plan, Section H, "Emergency Facility and Equipment," Section 1, "Accident Assessment".
2.8 Duke Power Company Radio Operators Manual.
2.9 Syetem Radiation Protection Manual, Duke Powe Jompany, Rev, 4.
2.10 NUREG-0654, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants".
2.11 FEMA REP-2, Rev, 1, "Guidance on Offsite Emergency Radiation
Mcasurement Systems, Phase 1-Airborne Release".
2.12 Code of Federal Regulations, Title 10, Part 20.

### 3.0 PRECAUTIONS AND LIMITATIONS

3.1 Enclosure 5.1, SRWP 98, contains protective clothing, dosimetry, and respiratory equipment criteria for field monitoring. Depending upon conditions, the Field Monitoring Coordinator (FMC) in either the

Technical Support Center (TSC) or in the Crisis Management Center (CMC) can change these criteria.
3.2 FMT members should follow the protective guidance as listed in Enclosure 5.1.
3.3 Upon activation of the CMC, the FMC in the TSC will become an extension of the CMC organization and will direct the Field Monitoring Teams (FMTs) under the guidance of the CMC's FMC. The CMC FMC will monitor FMT communications and report finid measurements to the CMC Dose Assessment Coordinator as appropriate.
3.4 The Field Monitoring Teams (FMTs) should puik vehicles completely off the road when sampling and use emergency flashers while stopped.
3.5 Once a release has occurred, vehicle windows should be closed with ventilation off or ventilation on recirculation to tinimize contamination until the plume area is identified.
3.6 Each FM' shall maintain open radio communications with the FMC. the radio becomes inoperable, telephonn:

FMC at TSC (4977) or outside Bell line (704) 875-1956
FMC at CMC (704) 382-0735/0736 for MNS, CNS or (803) 865-4804 for ONS
3.7 Ensure that count rate meter is on and is monitored during transport to sampling locations.
3.8 If any equipment becomes inoperable, notify the FMC and await further instructions.
3.9 Personnel not trained for emergency response may assist a trained Radiation Protection technician to do surveys and/or drive the vehicle.
3.10 The radio operator should follow the radio operation guidance described in reference 2.9 ; providing pertinent, general information. Care should be taken to NOT provide detailed, specific plant information.
3.11 During a drill, repeat the statement, "This is a drill, this is a drill" with each radio transmission.

> NOTE: The base radio call sign is (WQC700), The mobile unit radio call sign if (KA82138).
3.12 The field monitoring radio is a back-up means of providing emergency notification information to the states and counties. If needed, the
state/county communicatfons witt take precedence over field monitoring communications. Field monitoring teams should maintain radio silence until these communicationa are completed.
3.13 Environmental sampling during emergency conditions shall not replace, but rather suppiement normal environmental monitoring.
3.14 During drills/exercises FMT shall nol be required to don Respirators. This is to assure safe vehicle operation during drill/exercise. During emergency situations respirators use may be required.
3.15 The electronic key device on the key ring for each vehicle may be used for vehicle refueling. Enclosure 5.8 describes the refueling location ond 1 astruction.

### 4.0 PROCEDUAE:

### 4.1 Field Monitoring Team (FMT) Activation

4.1.1 Form as many survey teams and sar Ung van teams as possible, based upon the number of personnel avai' ble and field monitoring required.

NOTE: For any backup sampling vans from other stations, the call sign shall be preceded by the station name (example (Oconee) sample van 1).
4.1.2 Initial survey FMT will perform a survey of the security area boundary fence, as directed by the FMC.
4.1.3 Activate remaining FMTs in accordance with Enclosure 5.2.

NOTE: Emergency materials/equipment available to FMTs are listed in station reference 2.6.
4.1.4 The FMC should ensure that at least one FMT member from the affected station is on each FMT in the event that backup sampling vans/FMT members are provided from other stations.

### 4.2 Locating and Tracking the Plume

4.2.1 Unless otherwise directed by the FMC, the FMTs will generally be dispatched as follows:
Alpha, - performance of beta/gamma radiation surveys
Bravo, on the edges of the suspected area to Charlie, determine plunie boundaries, utilizing a Delta station vehicle.

Sample - performañe of air sample surveys, beta/gamma Van 1, 2 radiation surveys and mobile analyses at or bevond the site boundary fence, utilizing en emergency van.
Sample ~ performance of beta/gamma radiation surveys
Boat $\quad$ on adjacent lake areas, utilizing an
1,2, ete. emergency boat.

NOTE: If not dose prohibitive, the FMC may direct the FMTs to traverse the plume.
4.2.2 The FMC will direct FMTs to systematicaily survey the suspected areas in a continuous mode and to obtain air samples and beta/gamma measurements as conditions warrant utilizing quadrants, major roads, and/or predetermined sampling locations.
4.2.2.1 Each quadrant consists of a four square mile area (two miles on each side). This area is then subdivided into four sub-quadrants of one square mile each.
4.2.2.1.1 A quadrant on the EPZ Map will be identified by, 1) the letter depioting the column and 2) the number depioting the row (ex, $\mathrm{H}=12$ ).
4.2.2.1.2 A sub-quadrant will be described as either the upper left (UL), upper right (UR), lower left (LL), or lower right (LR).
4.2.2.2 Major roadways delineate major territories surrounding the plant. Either all or a portion of these sections would be expected to be affected to some degree by radioactivity released from the plant. Major roadways are therefore utilized to provide access to suspected regions (outer edges, leading edge(s), centerline) of the plume, as necessary,
4.2.2.2.1 Mafor roadways on the EPZ tnap are identified by numerical designations and responsibility level (federvl, state, county or eity) designations.
4.2.2.2.2 Selected roadweys on the EPZ map are identified by a specific name, rather than a numericul responsibility designation.
4.2.2.3 Each predetermined sampling location is der-ted by a (colored) dot on the map. The sampling point designator indicates the protective action zone the point is in and the mileage from the plant.
4,2,2,3.1 The FMC should use the points ais landuarks when directing the teams.
4,2,2,3.2 The point locations can be read directly from the map or from the directions in Enclosure 5.3.
4.2.2.4 While enroute and at sampling locations, survey teams shall report the maximum radiation level to the FMC.
4.2 .2 .5 If directed and feasible, sample van teams shall report the maximum radiation level of the instantaneous cloud, the average radiation level while inside the plume, and air sample data to the FMC.
4.2.3 The FMC may use Enclosure 5.4 as a log to document iastructions to the radio operator regarding FMT movement and utilization.
4.2.4 The radio operator may use Enclosure 5.5 or site area maps to record FMT movement and field data such as beta/gamma surveys, air samples, ana, or special samples.
4.2.5 The FMC should periodically provide information to the FMTs on the emergency classification, wind speed, wind direction, zones affected and other pertinent information, using Enclosure 5.6. Typically information provided by the Emergency Coordinator or Recovery Manager during P.A. announcements could be used to update FMT's.
4.2.6 The FMC should periodically check and track FMT member's radiation exposures, using Enclosure 5,7.

### 4.3 Special Sampling, as directed:

4.3.1 Collect additional special samples including but not limited to: sinears of surrounding areas, integrated dose over a period of time with TLDs, vegetation, sediment, water, and milk, as requested by the FMC. Label und save each for analysis.

NGTE: FMTs may also be requested to retrieve and replace environmental air samplers and/or TLDs.
4.3.1.1 To collect vegetation samples, use the shears to cut enough broad leaf vegetation to fill a $12^{\prime \prime} \times 12^{\prime \prime}$ poly bag.
4.3.1.2 To collect a soil sample, estimate one square foot of soil and dig out one inch deep.
4.3.1.3 To collect a water sample, use the Limnological sampling equipment to fill a one gallon cubitainer. (See 5nclosure 5.8)
4.3.1.4 Smears should be taken on stationary, horizontal surfaces, e.g. mailboxes, gas pumps, etc., NOT on Automobiles !

### 4.4 FMT Turnover

4.4.1 FMTs shall be relleved as directed by the FMC.
4.4.2 The FMTs shall provide turnover to the relief FMT's, consisting of the following :
4.4.2.1 Dose rates and other sample data from areas previously surveyed.
4.4.2.2 Sampling van emergency suppliss or emergency kit inventory consumed.
4.4.2.3 Equipment operating status.
4.4.2.4 Any sampling problems.
4.4.2.5 Emergency classification.
4.4.2.6 Wind speed.
4.4.2.7 Wind direction.
4.4.2.8 Zones affected.
4.4.3 FMTs shall turn in all data sheets to the FMC as directed.
4.4.4 Following turnover, relieved FMT members should report to a counting facility designated by the FMC for a post-job BBA.

### 5.0 ENCLOSURES:

5.1 SRWP 596
5.2 Suggested Field Munitoring Team Checklist for Initial Response
5.3 Predetermined Sampling Locations (including Air, TLD, Water and Milk Sample Locations)
5.4 FMC Instruction Log
5.5 Field Monitoring Survey Data Sheet
5.6 Periodic Status Update for Field Monitoring Teams
5.7 Field Monitoring Team Radiation Exposure Record
5.8 Vehicle Refueling Instructions
5.9 Limnological Sampling Directions
5.10 Portable Gas Generator Instructions
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Nownis mecisal etartic

EDA-UY
Enclesure 5.1
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IV| Notify Radiation Protection prior to start of mots of ofangang wark locatione.
IV 1 Contaet liadiation Protection for expected conditions during job.
(V) Utilise RCZ/et.ntions/rope/signs/iaunary bibs/6 Radionotive weste bobleinerg.

I I Radiatioe Protectian approvei requirad prior te evespang, brushine, grindine, welding, of use of cocepreseed sir and solvente.
I I Provide for adecuete syetas drainage sed provide abeorbent metarial to piek up weter.
( I Lay acen poiyethyisne and/or canvae to protact vork surfactes and liant eonteaination.

1) Set up lowel ewhavet syetes with haph tiltar for proper ventilation.
(v) Enter tise th RCA/RCZ on Desly Exposure Time Reoord Cerd.

I I Revien erse Radiolonicel atatus aheer prior to entry,
(v) how does-race arkan are identified.
(1) Personneiftool/equipment sobitoring reguiren when leeving kCN/RCz.
( ) lowseknepitig tour raquired before RNF termination.



| Notiees | Fach radiatian worker is responsible for kntwing their untk arna dose rates and the docation of law coeerate waitimg ares. Kach radietion warker is remonsible for folloming the reculterants of the isp. |
| :---: | :---: |



(v) covkinkas



| (T) 6 (6)NEs |  |
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| cettan......... | VT T |
| fl-der . . . . . . . . . . . . . . . . . |  |
| Surgien. . . . . . . . . . . . . . . |  |
| Uottob vork. . . . . . . . . . . . |  |
| Beevy Rubber . . . . . . . . . . . |  |
| Leether. . . . . . . . . . . . . . . . |  |
| * |  |
|  |  |



## (v) TMFE RENURED

## ( ) mo prguiank contar  <br> (x) basimacky <br> 

(v) REAR TRNTURY
 (8) Kw

## TERMEATED

Radiation Prvtaction Title
Radianenarampummanawaman

# RADIATION WORK PERMIT CONTTNUATION SHEET Page 2 of 2 DUKE POWER COMPANY 


COMMENTS: WORKER DESCRIPTION
A WORKER: No Core damage: No Release
B WORKER: No Core damage; Release
C WORKER: Core damage; No Release
D WORKER: Core damage; Release: Outside of Vehicie - Contarnination 450 copm with HP
$210 / 260$ or RM-14 or E-120 or E-520.
NOTES
NOTE 1: Respiratory Protection (full face particulate) and issuance of Potassium iodidetablets by direction of FMC.

EXAMPLE GUICELINES FOR FIELD MONITORING TEAMS


## LIST OF DESIGNATED LIMNOLOGICAL SAMPLE POINTS

```
Davidson Intakes - Sector A (North-Northeast) 5-6 miles
    Sample elevation - 736.
    Accessible by land on 8R 2195 (Torrence Chapel Road)
Charlotte Intakes - Section E.(South) 5-6 miles
    Sample elevation 635' = Unit & Intake
            640 - Unit 2 Intake
            637. - Unit 3 Intake
    Accessible by land on SR 2004 (Mt. Holly-Huntersville Road)
    (Pump Stat.Ion Road)
NOTE: 1. Full lake elevation is 760'.
    2. Catawba RIver sp111way elevation (for Charlotte Intakes) is 647.6"
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## DET/AIL.ED GUIDE TO ALL TLD SAMPLE LOCATIONS

This enclosure is meant to provide a guide to one who is not familiar with the environmental TLD sample route. Appropriate deviations from this sequence and routt maty be made at hecestary.
A. Saaple location numbers:

```
143 - Point of land north of Intake pumps.
144 - On the fence, at ait sampling site #120, near R.P. Boat House.
145-On the fefice, at a4r sampling $1te #121, noar guard house
    at Training and Technology Center.
146 - Shoreline of discharge canal, below the bridge.
147 = On the fonce, at the Training and Technology Center,
    Environmental Laboratory, behind the QA building, next to the beige
    aluminum buliding.
148 - Second utility pole on the right-hand side of McGuire
    Construction Entrance.
149 - Near site fence, 200 feet east of U-2 Access Road on Hwy, 73.
150 - On the site fenc#, 800 feet west of U-2 Access Road on Hwy, 73.
151 - Fence east side Inside 0.C. (Ommer Controlled) Gate #2.
152 - Near railroad tracks west of N,P. (Nuclear Production) entrance.
153 = Clearfng on the left, Inside O.C. (Owner Controlled) Gate ##4
    ($. River Gate).
154 - Edge of rlver bank, access O.C. (Owner Controlled) Gate 05
    (Lower Dam Access).
155 - Bottom of earthen dam embankment, access 0.C. (Owner
    Controlled) Gate #6 (Lower Dam Access).
156 - Top of esrthen dam, access O.C. (Owmer Controlled) Gate il.
157 - W1111amson access area (on the Mecklenburg Neck) on ut111ty pole
    just beyond access sign.
258 - End of state maintained Road #2189 (Bethel Church Road).
1 5 9 ~ - ~ A n c h o r a g e ~ M a r i n e ~ S h i p y a r d ~ a t ~ H o l i d a y ~ H a r b o r ~ M a r i n a . ,
160 = On the fence, at Anchorage Maryne Showroom,
161 - Main power pole at the intersection of Hwy, "21 and Sam Furr Road.
162-F4rst power pele at the 4ntersectfon of Gllead Road and State
    Road 02139.
1 6 3 ~ - ~ D u k e ~ P o w e r ~ s u b s t a t i o n ~ a t ~ t h e ~ i n t e r s e c t i o n ~ o f ~ H a m b r i g h t ~ R o a d ~
    and McCoy Road (State Road |2138).
1 6 4 ~ - ~ P o w e r ~ p o l e ~ o t ~ t h e ~ i n t e r s e c t i o n ~ o f ~ B e a t t i e s ~ F o r d ~ R u a d ~ a n d ~
    Hambright Road.
165 - Approximately 2 miles down power plant road from R:ver Bend
    Steam Station.
166 - Water tank across from River Bend Steam Station.
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        167 - Behind Lucia Volunteer Fire Department,
        168 - Power pole at state Road 11511 at K!111an Creek.
        169 - Last power pole on Kincald Road.
        170 - Second utility pole on right from intersection of Hwy, \(\| 73\) and State
        Road 11386.
        171 - Utility pole at Triangle Hardware.
        172 - Power pole at the home of T.L. McConnell.
        173 - Power pole at the home of M.S. Glover.
        174 - On the fence, at air sampling site 0134 , near East Lincoin
        Junior High School.
        175 - Utility pole at the home of Steve Mooneyh
        176 - Behind the home of R.G. McGee, on cedar post.
        177 - On a tree at the home of J.R. Leonard.
        178 - Duke Power Substation at Florida Steel Corporation.
        179 - Power pole at the home of Dan Rains.
        180 - Mooresville hater Treatment Plant.
        181 - Davidson Water Trestment P1ant.
        182 = On the fence, at air sampling site \#133, at Cornellus substation.
        183 - Intake purping station for Charlotte drinking water, Gar Lake.
    B. Directions to sampling locations:
    NOTE: Contact Security at Ext. 4460 to open ali \(0 . \mathrm{C}\). (Owner Controlled)
        Gates.
    Location \#156 Proceed to the McGuire Nuclear Station main antrance and
        then follow the black topped road to the right between
        the upper and lower parking lots. Continue on this road
        until it becomes a dirt road then turn onto the first
        dirt road on the right. At the end of this road. turn
        right again and proceed up the incline to the right. At
        the top of the incline, make a sharp left turn and follow
        to the top of the dam embankment, Enter \(0, \mathrm{C}\), Gate 17 and
        travel the length of the dam, until you reach the
        concrete dam portion of Cowan's Ford Dam. The TLD will
        be on your left near the base of the cement barrier.
    Location 1154 Return to the place where the dirt road becomes a
(WSW)
Location 11.55 From the grassy embankment, return to the dirt/grass
(W)
black topped road and turn onto the dirt road on the
right. Follow the dirt road to the SMS Supply shelter
and turn right. Continue until you enter O.C. Gate is
then follow the dirt/grass path. As the path bends to
the right, there is a grassy embankment on the left. The
TLD is located in a plastic bag tied to a stake beside a
rocky area - 40 feet from the top of the embankment,
path and proceed to the end of the path. The TLD is
located on the right in a plastic bag tied to a stake
near the wooden rail fence in front of the dam.

Enclosure 5.3
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Location
$(\mathrm{SW})$

Location *151
(5)

Location 0152 (SSW)

Location 1150 (SSE)

Location 8149 (SE)

Location 0148 (ESE)

Location 8147
(E)

Location 1146 (ENE)

Location 1145
(NE)

Location \#143 (N)

Location $\$ 144$ (NNE)

Localion 0158 (NNE)

Location $\# 159$ (NE)

Exit 0.C. Gate 45. Return to road in front of Chemistry Waste Treatment Bullding, Bear to the right and proceed to O.C. Gate $\# 4$. Go through $0, C$. Gate il 4 to a clearing on the left (approximately halfway down the road toward the continuous water sampler). The TLD is located in the clearing near the edge of the embankment in a plastic bag.

The TLD is located on the left as you leave O.C. Gate \#2 approximately 50 feet on the left across the cument drainage pipe just before the S.P. entrance.
Exit past the McGuire entrance and turn right onto Hwy, 073. The TLD is located at the KK right-of-way approximately 200 feet west of the $8 . P$, entrance, in a clear bag.

Drive east of Hwy, i73. The TLD is located on the double gates at the site fence in a plastic bag across the highway from the emergency siren.

The TLD is located near the site fence approximately 25 feet off Hwy, $\| 73$ and approximately 300 feet east of Location 0150 between two stakes under some pine trees.

Drive east on Hiwy, 073. Tumn left at the Construction Entrance. The TLD is located on the second utility pole on the right side of the radd across from the flrst access road on the left.

Continue toward the McGuire Construction entrance.
Turn right into the QA building at the 11 ght. The TLD is located on the fence, haside the belge aluminum bwilding.
Turn right Into the Training and Technology Center.
The TLD is located on a utility pole on the right just. before you cross the bridge.

Proceed to the guard house at the Training and
Tecanology Center. The TLD is located to the right of the guard house on the knoll. It is attached to the fence at alt sampling site $\# 121$.

Proceed past the guard house and Training Center,
Bear left on the first gravel road going behind the Energy Explorium to the locked gate (CPD-2 key) to the left of the Duke Power $s i \mathrm{gn}$.

Return from the point and iurn left where the two dirt roads intersect. Follow this road until it intersects the main road and turn left. The TLD is located on your left, on the fence at air sampling site \|l20 near Raclation Protection boathouse.

Return to Hivy, $\# 93$ and turn left, At the intersection of Bethal Church Road. (S,R, 02189) and Hwy, 075 turn left. The 71.0 is on a cndar tree located 75 fees diagonally frofi the utility pole on the left of Bethel Church Road. (comer of Lola and Bethel Church Rosd).

Return to Hwy, $\# 73$, turn left, and turn left on
Henderson Road leading to Anchorage Marine shipyard at. Hollday Harbor Marina. Follow this road to martna area. The TLD is on the power pole behind the shipyard warehouse.
Location 0160

Location \#161
(E)

Location 8178
(SE)

Location \#179
(ESE)

Location 8163
(SE)

Location 8164
(SS宗)

Location 1162
(ESE)

Location 8182
(ENE)

Location if181
(NE)

Return to Hwy, i173, turn left and follow Hwy. $\# 73$ until it crosses over $I-77$. Take the first right after croseing $1-77$. Follow Hwy, \#21 until it intersects S.R. 82147. Anchorage Marina showroom will be on the left. The TLD is on the fence in front of the parking lot.

Returt to Hwy. $\# 21$ and proceed south, The TLD is located on the right on the main power pole that feeds the meter pole at the intersoction of Hwy, 021 and Sam Furt Road.

Follow Hwy, \#21 until it intersects Gilead Road and turn left. Follow Gilead Road until it intersects Hwy. it115s (01d Statesville 1 fwy.) and turn to the right. Follow Hwy, 0115 s until you come to Florida Steel in the Croft Cummunity. The TLD is on the fence inside the Duke Power substation to the right of Florida Steel, about $2 / 3$ of the way down the length of the fence.

Return to Hwy, ill15 and turn left. Follow Hwy, $\| 115 \mathrm{~N}$ until it is joined by Eastfield Road. Turn right on Eastfield Road. Follow Eastfield Road until it intersects Prosperity Church Road. Turn right on Prosperity Church Road. The TLD is located approximately 2 miles down the road on the right, on the telephone pole bcruss fram a 'red barn' house.

Return to Hiy, $\$ 115$ and turn right. Proceed to
Hembright Rirad (S.R. \#2117) and turn left in front of Alevandat Junifur High. Proceed to McCoy Road (S,R. "2120) and turn left. The TLD is on the right, inside the felyce at the Duke Power substation at the right back leg of the transformer.

Fsom iwy, 0115 tuin left onto Hambright Road. Follow llambright Road until it intersects Beatties Ford Road. The $\tilde{T L D}$ is located on the left on the power pole where these two roads fntersect.

Turti right onto Beatties Ford Road and follow it until it intersects Gllead Road. Turn right onto Gilead Road. Follow Gllead Road to Ranson Road (S.R. i)2139) and turn left. The TLD is located on the lefi on a power pole in front of the David Young residence.

Return to Hwy, 0115 and turn left. Follow lwy. 0115 N into Cornelius. Turn right off to Hwy. 115 N , just past the First Union National Mank in front of Fred's Shoe Shop, than left on Zion Street. The next TLD is located on the right, Inside the Duke Power substation, at air sampling site 0133.

Return to Why, 0115, arid turn right, Follow Hwy,
\#115N unt 11 it intersects with Fotis Sciset (street just. before rarirnad overpass) and turn left. Follow Potts Street until ic intersects with W. Walnut Street and turn left. The TLD is located on the power pole at the reat of the Davidson Water Works Building. The Davidson Water works Bullding will be the first building on the right. after turning onto $W$. Walnut Street.

Location \#157
(N)

Proceed to the end of Walnut Street and turn left onto Gamble Road. There will be a Day Care area in front of you. Furn right at the end of this road onto jetton Road. Follow this road until it ends and turn left. You will see $1-77$. Go north on $\mathrm{I}-77$, Take exit il33 off I-


|  | R.0. McGee. His is th house on the left of $\mathrm{S}, \mathrm{R}$, 22393. |
| :---: | :---: |
| Location 4168 <br> (WSW) | Returtn to Hwy, 116 and turn left. Continue north on Hwy, 116 unt 11 it Intersects 01d Plank Road (S.R. 41511 and turn left. The TLD Is located on the left on the last power pole before crossing Klllian Creek. |
| Location $\# 169$ <br> (W) | Return to Hwy, di6 and tum left. Follow Hwy, al6 until it intersects Kincaid Read. (Kincaid Road is the road immediately north of Hills Chapel United Methodist Church on Hwy, (16). Tumn left on Kincald Road. The TLD Is located on the last power pole on the right at the end of the road. |
| $\begin{aligned} & \text { Location } 18167 \\ & (\mathrm{SW}) \end{aligned}$ | Return to Hwy, II16 and turn right. The next TLD is located on the left hand side of the road behind the Lucia Volunteer Fire Department Bullding. It is in a clear bag at the edge of the trees. |
| Location 8166 (SSW) | Turn left onto Hwy, 016 and proceed to Power Plant Road and turn left. Turn right at the stop sign. The next TLD is located on your fight, on the water tark across from River Bend Steam station. |
| $\text { Location }{ }_{(\$)}^{1165}$ | Proceed down Power Plant Road for approximately 2 miles. The TLD is on a large oak tree on the right at the sharp bend $\left(90^{\circ}\right)$ in the road. |
| Location 8177 <br> (5) | Return to Hwy, 116 and turn left. Follow Hwy $\# 16 \mathrm{~s}$ until it intersects Kentberry Drive in the Coulwood Community and turn to the right. Turn left at the Intersection of Kentberry and Belmorrow Drive. The TLD is located on a tree halfway to the driveway of J.R. Leonard at 908 Belmorrow Drive. |
| $\begin{aligned} & \text { Location } 1183 \\ & \text { (S) } \\ & \text { (control) } \end{aligned}$ | Retum to Hwy, 116 and tum left. Turn right at the Intersection of Mt. Holly-Huntersville Rd. (S.R. \#2004). Follow Mt. Holly-Huntersvilie Road to Pump Station Road (S.R, !2001) and turn right. Follow Pump House Road until it dead ends. The ThD is located along the river bank just at the edge of the tall grass in a clear bag (about 50 feet from the water). |

## LIST OF DESIGNATED MILK SAMPLE LOCATIONS

This enclosure is meant to provide a guide to one who is not familiar with the enviromental milh sample route. Appropriate deviations from this sequence and route maty te tade at tecestaty.

## MILK SAMPLES

A. Sample location numbers:

139 - W1111am Cook Dairy
138 - Henry Cook Dairy
140 - David K1dd baity
141 - Lynch Dairy
B. Directions to sampling locations:

Location "1139
W1111am Cook Dairy.

Location \#138
Henry Cook Dalry

Location 8140
Kldd's Dairy

Location 141
bynch Dairy

Turn left when leaving Mos main entrance and proceed to 011ver Hager Rd, (SR 02142) on your right. Follow road to the large main house. Behind the house is a gatage stotage area. The milk will be in a reffigerator in the garage ares.

Petum to Hwy, 73 and tum left. Proceed to Beatties Ford Rd, (Rd, beside Phillips 73 General store) and turn left. Follow Beattles Ford Rd, approximately, 5 miles to Gilead Rd. Turi left, Follow Gllead Rd, approximately 4 mi. to Ervin Cook Rd. Turn left. Henry Cooks Dairy will be th second dalry on your left, approx, 1 mi . It will be on your left Just before the road ends. The milk will be in a refrigerator in the white wooden building on your fight.

Return to Beatties Ford Road and make a left. Proceed to 31 m Kidd Road (approximately 1.0 miles) and turi -ight. Proceed approximately . 5 of a mile and look for a white house on the right. Follow the dirt road ts the rear of the house. The milk sample is laken from the vat located in the block buildfng thaind the house.

From ASC turn right onto Hory. 73. Follow Hwy. 73 until it intersects with Hwy, 27. Follow Hry. 27 into Boger elty to SR \#1003 (Buffalo Shoals Road) and turn right. The Lynch residence is 5,4 miles on the right (yellow ftame house).

# DIRECTIONS FOR PREDETERMINED SURVEY/SAMP ING LOCATIONS 

|  | $\begin{gathered} \text { Examplei } \underset{\text { Evacuation }}{\text { Eone }} \begin{array}{c} \text { Mile } \\ \text { Zadius } \end{array} \end{gathered}$ |
| :---: | :---: |
| $A=2-1$ | From the intersection of Hwy, 73 and Jetton Road (SR2151), go west on Jetton Road 2,0 miles. Turn left onto 01d Beatties Ford Road (SR2149) and po 3,0 miles. Tym right on belle lele Dr, (SR2331) and go to the end of the road. |
| $A-3-1$ | From the Intersection of Hwy, 73 and Jetton Road (SR2151), go west on jetton 3,8 miles to dead end. |
| $A-3-2$ | From the Intersection of Hwy, 73 and Jetton Road (SR2151), go west on Jetton Road 2,0 miles to the intersection of jetton Road and old Beatties Ford Raad (SR2149). |
| $A-3-3$ | From she intersection of Hwy, 73 and Nance Road (SR2148), go west on Nance Road. Go to end of Nance Road. |
| A-5-1 | From the intersectson of V1114amnon Road (SR1109) and Brawley School Road (SR1100), go west 8.0 miles on Brawley School Road to dead end at water. NOTE: Brawley School Road becomes Mayhew Road at Meckenburg County Line. |
| $A=5-2$ | From the Intersection of Hwy, 73 and Bethel Church Road (SR218) , go north on Bethel Chuch Road to the end of Bethel Charch Road. |
| $1-5-3$ | Knox's Grill at Hwy, 73. From the main plant entrance, go east on Hwy, 736,4 miles to Knox's Grill at Intersection of Hwy, 73 and Henderson Ratod ( 5 R2907) . |
| 2. $6-1$ | Fram the Intersection of Williamson Road (SR1109) and Brawley School Road (SR1109), go west 6.9 miles on Brawley School Read. Turn left on Torrence Chappel Rosd (SR2065), go , i mile. Stop on rondside, NOTE: Brawley School Road becomes Mayhew Road at Mecklenburg County The, Torronce Chappel Road is the first left after the county line. |
| B-1-1 | One rille from plant on Lake Norman. (WNW) |
| 召 $=102$ | One mile from plant on Lake Norman. (NW) |
| $8-1-3$ | One mile from plant on Lake Norman. (NNW) |
| $8-1-6$ | One mile from plant on Lake Norman. (N) |
| $B-1=5$ | One mile from plant on Lake Norman. (NNE) |
| 8-2-6 | Emergency Boat House and dock. |
| B-1-7 | One and \| miles from plant on Lake Norman (NE) directly east of TTC. |
| $8-1-8$ | One and : miles from plant on Lake Norman (NE) at mouth of discharge canal. |
| A-1-9 | One and I miles from plant on Lake Norman (ENE). |
| $4-1-10$ | Bridge over discharge canal on road to PTYC, |
| B-1-11 | The intersection of $U-2$ access read and the road to TTC. |
| B-1-12 | On the roadside of U-2 access road , 2 miles off of Hwy, 73, |
| $8-1-13$ | The intersection of Hwy, 73 and the $\mathrm{H}-2$ access road. |

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8-1-14 The intersection of Hwy, 73 and the access road to the firing range.
B=1 +15 \1-1 main entrance.
8-1-16 Right past tho bridge on Hwy, 73 over the Catawbe River (below the dam),
8-1-17 The east side of Cowans Ford Dam, access through 0.C. Gate #5 (lower dam
    access).
B-1-18 At the intake structure.
B-2-1 2 miles from plant on Lake Norman (NE),
#-2-2 From Mcgu4re mafn entrance, go etst on Hury, 73 2.5 miles. Turn left on
    Berry Lane (SR2255). Go 0.5 miles to the end of Terry Lane (SR2255).
8-3-1 com McGuire main entrance, go east on Hwy, 73 3,8 miles. Turn left on
    Norman Island Drive (SR2145), Go to the end of of Norman Island Drive.
C-1-1 At the intersection of Hubbard Road atd Hwy, i3 turn on Hubbard Road
    (SR2134) and stop on roadside.
C-1-2 From the intersection of Beatties Ford Road (SR2128) and Hwy, 73, go
    south 1.3 miles on Beatties Ford Road. Turn right onto Cashion Road
    (5R2133), go to end of road.
C-2-1 From the intersection of Beatt1es Ford Road (SR2128) and Hwy, 73, go
    south 1.3 miles on Beatties Ford Road to the intersection of Beatities
    Ford Road and Cashion Road (SR2133),
C-2-2 From the Intersection of Beattles Ford Road (SR2128) and Hwy, 73,go
    south 1.5 miles on Beatties Ford Road. Turn flght on Stephens Road
    (SR2132), go.7 miles to dead end at gate.
D-2-1 From the intersection of Seatties Ford Road (SR2128) and Hwy, 73, go
    south, }3\mathrm{ miles on Beattieg Ford Road to the intersection of Beatties
    Ford Road and G1lead Road (SR2136).
D-3-1 From McGuire main entrance go east on Hwy, 73 3,8 miles to intersection
    of Sam Furt Road (SR2145) and Hwy, 73.
D-3-2 From the intersection of Beat+1es Ford Road (SR2128) and Hwy, 73, go . 3
    miles south on Beatties Ford Road. Turn left on G1lead Road (SN2136),
    go 1.2 milles to the intersection of G:lead Road and Bud Henderson Road
    (SR2131).
D-3-3 From the Intersection of Beatties Ford Road (SR2128) and Hwy, 73, go
    south on Beatties Ford Road 2,4 miles to the intersection of Beatties
    Ford Road and Jim Kidd Road (SR21?9).
D-3-4 From the Intersection of Beatties Ford Road (SR2128) ard Hwy, 73, 30
    south on Beatties Ford Road 3.5 miles. Turn right on Neck Road
    (SR2074), go 2.4 miles to the intersection of Neck Road and Allison
    Ferry Road (SR2127).
D-3-5 From the intersection of Beatties Ford Road (SR2128) and Hwy, 73, go
    south on Beat:ies Ford Road 3.5 miles. Turn right on Neck Road
    (SR2076), go 2.4 miles. Turn right on Al11son Ferry Road (SR2127), go
    , miles to dead end.
D-5-1 From the intersection of Beatties Ford Road (SR2128) and Hwy, 73, go south on Beatties Ford Road .3 miles. Turn left on Gilead Road (SR2436), go 3,0 miles to the intersection of G1lead Road and Ranson Read (SR2139).
D-5-2 From the intersectian of Beatties Ford Rozd (SR2128) and Hwy , 73, go south on Beatties Ford Road 4.2 miles. Turn left on Hambrlght Road
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(SR2117) , go 1.6 miles to the intersect on of Hambright Road and McCoy Road (\$R2120).

D-5-3 Frum the intersection of Beatties Ford Road (SR2128) and Hwy, 73, go south on Beatties Ford Road 4.2 miles to the Intersection of Beatties Ford Road and Hambright Toad (SR2117).

D-5-4 From the intersection of Beatties Ford Road (SR2128) and Hwy, 73, go south on Beatties Ford Road 5.0 miles to the intersection of Beatties Ford Road and Sample Road (\$R2125).

D-5-5 From the intersection of Beatties Ford Koad (SR2128) and Hwy, 73, go south on Beatties Ford Road 3.5 miles. Turn right on Neck Road (SR2074), go 2.4 miles. Bear to left and continue 6 miles. Stop on roadtide.

E-6-1 From the intersection of Beatties Ford Road (SR2128) and Mt. Holly Huntersville Road (SR2004), go west on Mt. Holly-Huntersville Road to the intersection of Mt. Holly-Huntereville Road and Oakdale Road (SR2042).

E-7-1 From the intersection of Beatties Ford Road (SR2128) and Mt. Folly Huntersville Road (SR2004), go west on Mt. Holly-Huntersville Road 3.2 miles to the intersection of Mt. Holley-Huntersville Road and Pump station Road (SR20C1).

E-8-1 From the Intersection of Beatties Ford Road (SR2128) and M1randa Road (SR2025), go kest on Miranda Road to the intersectiun of Mirands Road and Sunset Road (SR2042).

E-8-2 From the intersection of Mt. Holly-Huntersville Road (SR2004) and Hwy, 16. go south on Hwy. 16 to intersection of Hwy, 16 and Pleasant Road (SR2008).

E-8-3 From the intersection of Mt. Holly-Huntersville Road (SR2004) and Hwy. 16, go west on Mt. Holly-Huntersville, 8 miles to the intersection of Mt. Holly-Huntersville Road and Harwood Lane (SR1667) - directly across from Mountainait Road.

E-10-1 From the intersection of Beatties Ford Road (SR2128) and Sunset Road (SR2108), go west on Sunset, 7 miles. Turt left on Peachtree Road (SR2019), go 1.3 miles to the Intersection of Peachtree Road and oak Road (SR2027).
$\mathrm{E}-10-2$ From the Intersection of Mt. Holly-Huntersville Road (SR2004) and Hwy, 16, go south on Hwy, $16 \quad 1.5$ miles. Turn right on Valleydale Road, then make an 1 mmediate T ight ( 50 ft ,) onto Gumbranch Road. Go, 7 miles on Gumbranch. Turn left on Cathey Road, go 1.0 miles to the intersection of Cathey Road and Tom Saddler Road.

F-5-1 From the intersection of US21 and G1lead Road (SR2136), go south on US21 .9 miles to the intersection of US21 and Mt. Holly-Huntersville Road (SR2004).

F-7-1 From the intersection of US21 and Gilead Road (SR2136), go south on US21 2.9 miles. Turn right on Alexanderana Road (SR2116), go 1.0 miles to the intersection of Alexanderana Road and Mt. Holly Huntersville Road (Sp2004).

F-8-1 From the intersection of I-77 and G1lead Road (SR2136) - Exit 1123, go south to $1-77$ to the intersection of $1-77$ and Reames Road (SR2110) $=$ Fxit \#38.

F-9-1 From the intersection of US21 and G11ead Road (SR2136), go east on Gilead Rnad . 7 miles. Continue straight on Huntersville-Concord Road (SR2426) 3.6 miles to the intetsection of Hunterville-Concord Road and Hiwasee (this also may be called Huntersville-Cohcord Road).

F-9-2 From the Intersection of US21 and G11ead Road (SR2136), go east on Gilead Rodd, 7 miles. Continue straight on Huntersville-Concord Road ( 5 R2426) 2,4 mfles. Turn right on Asbury Chapel Road ( 5 R2442) , go 2.4 miles to the fntersection of Asbury Chapel Road and Trails End Road (5R2445)

F-10-1 From the Intersectiun of US21 and Gilead Road (SR2136), go east on Gllead Road. 7 milles. Turn right on Hwy, 115 , go 2.9 miles. Turn left on Alexanderana Road (SR2457), go , 9 miles. Turn left on Eastfleld Road (\$R2459), to 2.3 miles to the Intersection of Eastfleld Road and Prosperlty Church Road (\$R2475).
$\mathrm{F}-10-2 \quad$ From the intersection of US21 and Gilead Road (SR2136), go south on US21 5.2 miles. Turn left on Lakeview Road (Sk2112), go 1.0 miles. Turn fight on Hory, 115, go , 7 miles to the tnterfection of Hwy, 115 and Victoria Ave. (\$R2631) Beschwood Mobile Home Park Road.

G-5-1 From the intersection of US21 and G1lead Road (SR2136), go north on US21 3.8 miles to the intirsection of Js21 and Westmoreland (SR2147),

G-5-2 From the intersection of US21 and G11ead Road (5R2136), go north on US21 2,3 miles to the intersection of US21 and Sam Furr Road (SR2145).

G-6-1 From the fntersection of Us21 añ Cilead Koad (5t2136), go east on Gllead Road. 7 miles. Turn left on Hwy, 115, go 3.7 miles to the Intersection of Hwy, 125 and B ley Road (ER2416).

G-6-2 From the intersection of US21 and G11ead Rotd (Sk2136), go east on Gilead Road . 7 miles. Turn left on Hwy, 115, go 1.6 miles. Turn right on McCord Road (SR2427), go . 3 miles. Turn right on Hagers Road ( 55.2438 ), go , 5 mlles to dead end.

G-8-1 From the intersection of US21 and G11ead Road (SR2136), go north on US21 2.3 sailes. Turn right on Sam Furr Road (SR2145), go 3.9 miles. Turn left on Davidson-Concord Road and continue to intersection of Davidson= Concord Road and Rockey Rlver Road (SR2420).

G-8-2 From the intersection os US21 and Gllead Road (SR2136), go east on Gilead Road, 7 miles. Turn left on Hwy, 115, go , 7 miles. Turn ilght on Ramah Church foad (SR2439), go 2.4 miles to the intersection of Ramain Church Road and McCord Road (SR2427).

G-10-1 From the intersection of US21 and fillead Road (SR2136), go east on Gilead Road, 7 miles. Turn left on Hwy, 115, go 2,0 miles. Turn right on Sam Furt Road (SR214s), go 2.7 miles, Furn left on Davidson-Concord Road, go 2.3 miles. Turti right on Rocky River Road (SR2420), go 2.3 miles. Turn left on Shearer Road (SR2418), go 2.6 miles to the Intersection of Sherarer Road and Fisher Road (\$R2419).

H-6-1 From the intersection of US21 and Hwy, 73, to east on Hwy, 73. 9 miles to the intersection of Hwy, 73 and Hwy. 115.

H-7-1 From the Intersection of $\mathbf{1 - 7 7}$ and Hwy, 73 (Exit (i28), go north on 1-77 to the Intersection of $1-77$ anc Griffith Street (SR2158) (Exic il30).

H-7-2 From the Intersection of $1-77$ and Griffith Street (5R2158) Exit \|30, go east on Griffith Street, 9 miles to Sadler Square Shopping Center,

I-7-1 From the intersection of Brawley School Road (SR11U0) amd W1111amson Road (SR1109), go west on Brawley School Road 5.2 miles to the Intersection of Brawley School Road and Garden Road (SR1111).

1-7-2 From the intersection of Brawley School Road (SR1100) and Wil1iamson Road (SR1109), go west on Brawley School Road 2.7 miles. Turn left on Isle of Pines Road (SR1113), go 3,4 miles to dead end.
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1-8-1 From the intersection of Brawley School Road (SR2100) and Williamson Road (SR1109), go west on Brawley school Road 3,8 miles. Turn right on Chuckwood Road (8R1177), go to end.
1-9-1 From the Intersection of Brawley School Road (SR1100) and W1111amson Road (SR1109), go west on Brawley School Road 3.8 miles to the Intersection of Drawley School Road and Chuchwood Road (SR1177).
1-10-1 From the intersection of Brawley School Koad (SR1100) and Williamson Road (SR1109), go west on Brawley School Road 3.2 miles. Turn right onto McKendries Road (SR1115), go 1.6 miles to the intersection of McKandries Raad and Lakeview brlve (SR1455).
J-7-1 From the intersection of 1-77 and US21 (Exit 833), go west on Us21 over $1-77,2$ miles. Tumt left on Alcove Road (SR1206), go 1.8 niles. Turn right on Langtree Road (5R1102), go 2.0 miles to entrance Alexander IsIand.
J-9-1 From the Intersection of $1-77$ and Griffith Street (Exit \#30), go east on Grifflth Street (SR2158) 1.0 mile. Turn left on Hwy, 115, go 1.4 miles to the intersection of Hwy, 115 and M1dway Lake Road (SR1137),
J-10-1 From the intersection of $1-77$ and US21 (Exit \#33), go west on US21 over I-77 . 2 miles. Turn left on Alcove Road (SR1206) then bear right on Catalina Road iSR1110) go , 6 miles. Bear right on Malibur Road (SR1194) go, if miles to dead end at Cul-de-sac.
J-10-2 From the intersection of $1-77$ and US21 (Exit 033), go eant on Js21 , 1 miles. Turn right on Falrview Road (SR1246), go 9 miles. Turn right on Hury. 115, go 9 miles, Turn left at Falth Road (st1136), go, 8 mlP to the Intersection of Falth Road and Midws; Lake Road (Sk1137).
K-9-1 From the intersection of Hwy, 73 and Hwy, 16 , go north on Hwy, 16 . 6.6 miles. Turt right on Campground Road (SR1373), go 2,5 miles to the intersection of Slanting Rridge Road (SR1373) and Keistler Store Road (SR1899).
NOTE: Campground Road turns into Slanting Bridge Road at Catawba County I' ie.
K-9-2 From the Intersection of Hwy, 73 and Hwy, 16, go north on Hwy, 16 6.6 miles. Turn right on Campground Road (SR1373), go 4.8 miles. Turn right on Hwy, 150 , go 1.7 miles, Turn right on Kiser 1 siand Road (SR1841), go 3.1 m1les to dead end at circle.

> NOTE: Campground Road turns into Slanting Bridge Road at fatawta County Line.
L-1-1 From the McGuire main entrance, go west on Hwy, 73.5 miles to the Cowans Ford Dam (Lower) overlook.
L-1-2 From the McGuire main entrance, go west on Hwy, 731,4 miles. Turn right onto Cowans Ford Road (SR1395), go .8 miles,
L-2-1 From the McGuite main entrance go 1.4 miles to the intersection of Hwy. 73 and Cowans Ford Road (SR 1395).
L-2-2 From the intersection of Hwy, 73 and Hwy, 16, go north on Hwy, 160.6 miles. Turn right onto Hagers Ferry Road (SR1393) and go 1,4 miles. Ge etraight on the gravel rond thurky Potnt) 0.4 m11es.
M-1-1 From the McGuire main entrance, i,0 west on Hwy, 730.9 miles to the Intersection of Hwy, 73 and Caswe 11 Road (SR1578).
N-2-1 From the McGulre main entrance, go wezt on Hwy, 932.3 miles. Turn left onto Killian Road (SR1396), go 2.2 miles. Stop cn roadside of rallroad crossing.

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| $\mathrm{N}-2-1$ | From the intersection of Hwy, 73 and Hwy, 16, go north on Hwy, 16,6 miles. Turn right onta Hagers Feiry Road (Sh1393), go 1,4 miles. Bear left onto unmarked roat (SR1393), go 1.6 miles to where pavemant ends (at "Gusto Bay" sign). |
| :---: | :---: |
| $\mathrm{N}-3-1$ | Fror the intersection of Hwy, 73 and ifwy, 16, go north on Hwy, 16,6 miles. Turn right onto Hagers Ferry Road (SR1393), go . 9 miles to the intersection of Hagers Ferty Road and Lake Drive (\$R1568) Nixun Heights. |
| $\mathrm{N}-3-2$ | From the intersection of Hwy, 73 and Hwy, 16, go north on Hwy, 162.1 miles. Turn right on Unity Church Road (SR1439), go , 3 miles. Turn right on Grahem Road, go 1.6 mil es to end of road. |
| $y-4-2$ | From the intersection of Hwy , 73 and Hwy, 16, go north on Hwy . 162.1 miles. Turn right on Unity Church road (SR1439), 302.4 miles to Beatties Ford 1 ccess Area. |
| $\mathrm{N}-5-1$ | From the intersection of Hwy, 73 and Hwy, 16, go north on Hwy, 16 3.2 miles. Turn right on Lakeshore Drlve (SR1456) go 1.3 miles. Turn right on Island View Center (SR1656) go . 1 miles to dead end. |
| $0-3-1$ | From the intersection of Hwy, 73 and Hwy. 16, go south on Hwy, 162.0 miles. Turn left on Lifford Road (SR1397), go 1.2 miles to the intersection of Sifford Road and Mac Lane (SR 1710). |
| 0-4-1 | Frum the intersection of Hwy, 73 and Hwy, 16, go south on Hwy, 1* 1.2 miles. Stop on roadside at Hills Mnob Methedist Church. |
| 0-4-2 | From the intersection of Hwy, 73 and Hwy, 16, go south on Hwy, 16,6 miles to the intersection of Hwy, 16 and Pilot Knob Road (SR1394). |
| 0-5-1 | From the intersection of Hwy, 73 and Hwy, 16, go south on Hwy, 162.2 miles. Tur: right on 01d Plank Road (SR1511), go 1.0 miles. Stop on roadside passed bridge. |
| P-5-1 | From the intersection of Hwy, 73 an Hwy, 16, go weat on Hwy, 73 1,5 miles to t're intersection of Hwy, 73 and Little Egy - Road (SR1386). |
| $p-5-2$ | From the intersection of llwy, 73 and Hwy, 16, go west on Hwy, 731.5 miles. Turn right on Little Egypt Road (SR1386), go 1.9 miles. Turn right on Optimist Club Road (SR1380), go 4 miles. Stop on roadside. |
| P-6-1 | From the intersection of Hwy. 73 and Hwy, 16, go west on Hwy, 73 , 3.6 miles. Turn right on Schronce koad (SR1385). Go to intersection of Schronce Road (SR1385) and Ingleside Farni Road (SR1383). |
| P-6-2 | From the intersection of Hwy, 73 and Hwv, 16, go west on Hwy, 731.5 miles. Turn ight on Little Egypt Road (us1386), go 3.2 miles to the intersection of Littla Egypt Road which is now St. James Church Road SR1380) and Kidville Road (SR1381). |
| P-6-3 | Frotn the intarsection of Hwy, 73 and Hwy, 16, go north on Hwy, 16 4.9 miles. Turn right on Webb's Chapel Road (SR1379), go 1.6 miles to the intersection of Webb's Chapel Road and Burton Road. |
| P-8-1 | From the intersection of Hwy, 73 and Hwy, 16, go west on Hwy, 735.3 miles. Turn right on Beth Haven Church Road (SR1360), go 1.4 miles. Stop on roadside past bridge. |
| P-8-2 | From the intersection of Hwy, 73 and Kwy, 16, go west on Hwy, 732.5 miles. Turn \&ight on Ingleside Farm Road (SR1383), go. 1 mile and beat left 3.2 miles more. Turn right on Beth Haven Church Road (SR1300), go 1.3 miles. Tum right on Forney H111 Road (SR1373), go . 7 miles. Stop on roadsjde passed bridge. |

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P-8-3 From the Intersection of Hwy, 13 and Hwy, 16, go north on Hwy, 16 about 7.8 miles to the Intersection of 16 and SR1373 (Campground Road or llanting liridge Road). Turn right on this road and go about 1.8 miles to he fatersection of SR1373 and Pineridge Drive (SR1375).

P-10-1 From the intersection of Hwy, 73 and Hwy, 16, go west on Hwy, 73 6,8 miles to the intersection of Hwy 73 and Amity rch Road (SR1362),

P-10-2 From the intersection of Hwy, $7 s$ and Hwy, 16, 45 t , Hwy, 732.5 miles. Turn right on Inglesi e Farm Road (SRi3c 60.1 miles and bear left 3.2 miles more. Turn right on Beth Haven Cumrch Road (SR1360), go 2 g miles to the intersection of Beth Haven Church Road and Mundy Road (SR1349).

Q-6-1 From the intersection of Hwy, 73 and Hwy, 16, go west on Hwy, 732.5 miles. Turn right on Ingleside Farm Road (SR1383), go , 1 mile bear right and ge 1.7 miles more. Turn left on old Plank Road (SR1511), go .6 miles to the intersection of Old Plank Road and Mariposa (SR1412).

Q-8-1 From the intersection of Hwy. 73 and Hwy, 16, go west on Hwy, 73 . 5.3 miles. Turn left on Brevard Place road (SR1360), go . 1 mils. Turn left on O1d Plank Road (SR1511), go 1.0 mile. Turn ilght on Mt. Zion Church Road (SR1404), go (.9 miles. Stop on road side passed bridge.

Q-8-2 From the intersection of Hwy, 73 and Hwy. 16, to west on Hwy, 73 5.3 miles. Turn left on Brevard Place Road (SR1360), go i miles. Turn left on 01d Plank Road (SR1511), go 1.0 miles to the intersection of old Plank Road and Mt. Zion Church Road (SR1404).

Q-10-1 From the intersection of Hwy, 73 and Hwy, 16, go west on Hwy, 73 5.3 miles. Turn left on Brevard Place Road (SR1360), go 3,4 miles to the intersection of Brevard Place Road and Paysour Road (SR1361).
R-3-1 From the main entrance to McGuire 30 west on Hwy, 732.3 miles. Turn left on Killian Road (SR1396), go 3.4 miles. Stop on roadside (just past Gaston County sign).

R-5-1 From the intersection of Hwy, 73 and Hwy, 16, go south on Hwy, 267.2 miles. Turn left on Horseshoe Bend Beach Road (SR1912), go 2.0 miles. btop on roadside passed curve.

R-5-2 From the intersection of Hwy, 73 and Hwy, 16, go south on Hwy, 16 7.2 miles. Turn left on Horseshoe Bend Rach Koad (SR1912), go 1.0 miles. Stop on roadside.

R-5-3 From the intersection of Hwy. 73 and Hwy. 16, go south on Hwy . 16 7.2 miles to the intersection of Hwy, 16 and Horseshoe Bend Beach Road (SR1912).

R-5-4* From the intersection of Hwy, 73 and Hwy, 16, go south on Hwy, 16 4.3 miles to the intersection of old Hwy, 16 and Stanley-Lucia Road (Blacksnake Road-SR1905).

S-7-1* From the intersection of old Hwy . 16 and Stanley-Lucia Road (Blacksnake Road-SR1905), go west on Stanley-Lucia Road 2.0 miles. Stop on roadside at Macedona Cnurch parking lot.
5. ?-2* From the intersection of old Hwy, 16 and Stanley-Lucia Road (Blacksnake Road-SR1905), go west on Stanley-Lucia Road 1.1 miles. Turn right on Alexis-Lucia road (SR1820), go 1.6 miles to intersection of Alexic-Lucia Read and 01d Lowesville Road (SR 1907).

S-8-1* From the intarsection of old Hwy, 16 and Stanley-Lucia Road (Blacksnake Road-SR1905), go south on oid Hwy, 162.0 miles. Turn right on Hwy, 273, go to the intersection of Hwy, 273 and Sand Ford Road (SR1918).

S-8-2* From the intersection of old Hwy, 16 and Stanley-Lucia Road (Blacksnake Road-SR1905), go west on Stanley-Lucia Road 3.2 miles. Bear left at curve and continue 1.5 miles to the intersection of SR1935 and 01d NC 27 (SR1923).

8-8-3* From the intersection of old Hwy, 16 and Stanley-Lucia Road (Blacksnake Road-SR1905), go west on Stanley-Lucia Road 3.2 miles. Bea. left at curve and continue, 7 miles to the intersection of Stanley-Lucia Road and Sand Ford Road (SR1918).

S-8-4* From the intersection of old Hwy, 16 and Stanley-Lucia Road (Blacksnake Road-SR1905), go west on Stanley-Lucia Road 1.1 miles. Turn right on Alexis Lucia (SR1820), go 2.2 miles to the intersection of Alexis-Lucia Rod and Mariposa Road (SR1902).

S-9-1* From the 1uiersection of old Hwy. 16 and Stanley-Lucia Road (Blacksnake Road-3R1905), go west on Stanley-Lucia Road 1.1 miles. Turn right on Alexis Lucia Road (SR1820), go 2.2 miles. Turn left on Mariposa (SR1902), go 1.5 miles. Turn right on Airpuit Road (SR1903), go . 6 miles to the intersection of Airport Road and Hwy, 27.

S-10-2 From the intersection of old Hwy, 16 and Stanley-Lucia Foad (Blacksnake Road-SR1905), go south on old Hwy, 162.0 miles. Turn right on Hwy. 27, go 4.7 miles to the intersectionof Hwy, 273 and N. Main Street.
*NOTE: 01d Hwy, 16 (Lucia Riverbeni Itry.) can be reached by turning right at the intersection of Hwy, 16 and Lucia Riverbend Hwy, which is 4.1 miles south on 16 from the Hwy, 73 and Hwy, 16 intersection.

FMC/OMC INSTRUCTION LOG

| Team | Location |  | Sample Type |  | $\begin{aligned} & \text { Special } \\ & \text { (Fi11 in) } \end{aligned}$ |
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## FIELD MONITORING SURVEY DATA SHEET

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## PERIODIC STATUS UPDATE FOR FIELD MONITORING TEAMS

Time: $\qquad$ hours
Claesification: $\qquad$
Wind Speed: mph
Wind Direction: from $\qquad$
Zones Affected: $\qquad$

Other: $\qquad$


Time: $\qquad$ hours

Classification: $\qquad$
Wind Speed: $\qquad$ $\rightarrow+2$ mph

Wind F ction: from
Zones Affected: $\qquad$

Other: $\qquad$

Time: $\qquad$ hours

Classification: $\qquad$ -

Wind Speed: $\qquad$ mph

Wind Directions from 0

Zones Affected: $\qquad$
$\qquad$
Other: $\qquad$
$\qquad$

Time: $\qquad$
$\square$ hours

Classification: $\qquad$
Wind Speed: ..... mph
Wind Direction: from ..... -
Zones Affected:
$\qquad$

Other: $\qquad$
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Time: $\qquad$ hours

Classificatica: $\qquad$
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Zones Affected: $\qquad$

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Time: $\qquad$ hours Classification: $\qquad$
Wind Speed: ..... mph
Wind Direction: from ..... -
Zones Affected:
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Other:
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FIELD MONITORING TEAM RADIATION EXPOSURE RECORD


## VEHICLE REFUELING

With the opening of the new McGuire Garage, the Transportation Depertinent has a new refueling process for refueling vehicles. The Transportation Department will continue to refuel vehicles Monday, Wednesday, and Friday during the day for vehicles outside the protected area, and Tuesday and Thursday at night for those vehicles in the protected area. If needed outside of these hours, fuel can be obtained as follows:

1. Pull in at the fueling island located at the new McGuire Garage. The garage is located on the right side of the access road to the McGuire switchyard.
2. Place the special refueling key in the pump control station. The contiol station is located on a vertical steel beam which is located between the gas pump and the diesel pump.
3. Remove the key, and follow the instruitions as they appear on the control stat on. The instructions include:
a. Enter your social security number.
b. Enter the vehicle number. The vehicle number is engraved on the special refueling key, or located on the hood and truck of the vehicle, or under the gas cap.
c. Enter the vehicle's mileage,
d. Enter the pump being used; 1 for gas, and 2 for diesel.
4. Quickly, remove the nozzle, turn thr pump on, and refuel the vehicle.
5. When finished, turn the pump off, and return the nozzle to the pump.

The refueling pumps are opened 24 hours per day, 7 days a week. The Transportation Department has personnel working in the garage from 7:30 am to 12:00 am Monday thru Friday.

If oil, antifreeze, or windshield washer fluid is needed, see one of the employees in the garage area.

## LIMNOLOGICAL SAMPLING DIRECTIONS

(1) Pull one of the blue stoppers out of the end of the main tube and attach the wire loop to one of the small pins on the handle tripping mechanism.
(2) Repeat for the other stopper as shown in the illustration below.
(3) Lower the bottle under water keeping the line taut, and drop the weight to strike the tripping mechanism. This will release the cablfs and close the bottle.
(4) For shoreline sampling when the elevation difference is small, attach one stopper and fill the bottle with water by scooping. The bottle can now be closed and the black nozzle used to empty the sample into a cubltainer.


1) Tum pf the AC, circuit breaker.

(2) Tums on the fuel valve
(3) Turn on the engine switch.


## AC applications

1. S. art the engine and plug in the appliance: alwavt use three pronged plugs. 2. Switch on the AC Cleryit Breaker.

CAUTION: Be sure that appliances do not exceed the generator s rated lowe capacity for more than 30 minutes and that they never arced the maximum load capacity. Substantial ovartosding will switch off the circuit breaker. Marsinai creriosding may not switch off the circuit baker, but it will shorten the services fife of the geraerstar.
Be wire that all appliances are in pood working order before connecting them to the penarstor, it an appliance begins to operate abnormality, bacoman sluggish, or stops suddenly, fum off the circuit breaker and the penserstor anguine with immediately. Than disconnect the appliance and examine it for signs af malfunction.

NOTE If an oiveriosded circuit causes the AC circuit breaker to which oft reduce the electrical load on the circuit and wait a few minutes before reset ting the eipstat theater


## STOPPING THE ENGINE

To stop the engine in an emergency, turn the engine switch OFF.
(1) Tum off the $A C$ circuit breaker.
*
(2) Tum off the engine witch

(0) Turn off the tull naive.


