

Report By:

**National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246**

NATIONAL

TAB

Comfort. Under control.

**Report: PRELIM TAB REPORT
Function: Test, Adjust, & Balance
Date: 06/15/2023**

**PROJECT
07-03-23 CULVERS - PLANO, IL**

6400 LAKESIDE RD

PLANO, IL 60545

Client

Accurex

PO Box 410

Schofield, WI 54476

CheckList List

- TECH - STEP 1: INITIAL WALKTHROUGH
- TECH - STEP 2: UNIT DATA AND EVAL
- TECH - STEP 3: TEST, ADJUST AND BALANCE
- TECH - STEP 4: FINAL TESTS
- TECH - STEP 5: FINAL DOCUMENTATION



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07-03-23 CULVERS - PLANO, IL

CheckList Information

Name : TECH - STEP 1: INITIAL WALKTHROUGH **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?

Perforated diffusers are installed on the cook line? (4-ways will disrupt hood capture)

All hood filters installed and accounted for?

Hoods are wired and have power?

Thermostats have power?

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?



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CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's

Economizers are assembled and functional?

Thermostat wire run from OCP on the RTU to the Ec terminal at the thermostat? If no, jumper can be installed from R to OCP temporarily. (The economizers will not open without OCP being energized.)

Motors are all operating below the FLA rating?

Are belts tight?

If direct drive unit is the speed controller working.

Is gas piping installed and valves turned on?

Unit free of noticeable noise and vibration

EF's

Rotation is correct?

Belts are tight?

Grease cup installed on hood fan?

Hinge kit installed installed on hood fan?

Lean grease rated fans back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?

Flex conduit is long enough so that fan can be completely tilted back?

There is no major leakage around base of fan?

Is the motor operating below the motor FLA rating?

For restroom fan(s) is the back draft damper installed and can it fully open?

Unit free of noticeable noise and vibration?

The hood exhaust fans are installed in correct positions and are not switched?

HOODS

Kitchen equipment installed in proper places?

Can kitchen equipment be turned on for final smoke test?

Second stage Grease Grabber filters are installed on the griddle hood?

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?



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CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?

Is space comfortable in all areas?

Is the space free of ventilation noise?

If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".



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CheckList Information

Name : TECH - STEP 4: FINAL TESTS **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

List smoke candle type used

Smoke test capture - Perimeter of hood

Smoke test capture - Top of cooking surface

WITNESS

Date test was completed

TAB tech name / Firm

Site super name / Firm

Owner representative name / Firm (if Applicable)

Building pressure at front & back doors (All Systems On)

ADDITIONAL

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)

Thermostats are programmed?

PRODIGY SETTINGS FOR RTU'S

Parameter 65 set to 0

Parameter 78 set to 0

Parameter 105 set to 6

Parameter 156 set to 70 (Dining unit only)

Parameter 156 set to 65 (Kitchen Unit Only)

Parameter 170 set to 75 (Dining Unit Only)

Parameter 170 set to 70 (Kitchen Unit Only)

Parameter 131 set to the same % as OA minimum position?

Parameter 117 set to the same % as OA minimum position?



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CheckList Information

Name : TECH - STEP 5: FINAL DOCUMENTATION **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

FINAL DOCUMENTATION

Marked Data capture complete for all assets?

Picture file sent to processing team or uploaded?

Balance schedule complete and uploaded?

Prelim report generated and reviewed?

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Project: 07-03-23 CULVERS - PLANO, IL
System/Unit: AHU/RTU



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Asset: RTU1

AREA:

| Unit Data | | | Test Data | | |
|---------------------|---------------------|---------------------|------------------------|--------|--------|
| | Design | Actual | | Design | Actual |
| MFG | ACCUREX/CAPTIVEAIRE | ACCUREX/CAPTIVEAIRE | SE CFM | 6150 | |
| Serial Num | - | | SF RPM | - | |
| Model Num | NA | NA | RA CFM | 4400 | |
| Type | RTU | | OA CFM | 1750 | |
| Configuration | VERTICAL | | RL Voltage | - | |
| Num OA Filters 1 | - | | RL Amperage | - | |
| OA Filter Size 1 | - | | SF Rotation | - | |
| Num Final Filter 1 | - | | RA Damper Position | - | |
| Final Filter Size 1 | - | | Min OA Damper Position | - | |
| Num Final Filter 2 | - | | Min OA Damper Type | - | |
| Final Filter Size 2 | - | | OA Enthalpy Setpt | - | |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | |
| Frame | - | |
| Horsepower | - | |
| Motor Rpm | - | |
| Phase | 3 | |
| Rated Voltage | 208 | |
| Rated Amperage | - | |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | |
| Fan Suction SP | - | |
| Fan Discharge SP | - | |
| Total ESP | 0.75" | |
| Fan Total SP | - | |

| Drive Data | | |
|--------------------|--------|--------|
| | Design | Actual |
| Motor Sheave Size | - | |
| Motor Bore Size | - | |
| Motor Sheave SetPt | - | |
| Fan Sheave Size | - | |
| Fan Sheave Bore | - | |
| Belt CL Distance | - | |
| Num of Belts | - | |
| Belt Size | - | |
| Belt Alignment | - | |

| General | | |
|----------------------------|--------|--------|
| | Design | Actual |
| Fan Rotation Correct | - | |
| Unit Filters Clean | - | |
| Condensate Drain Installed | - | |

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Project:07-03-23 CULVERS - PLANO, IL

AHU/RTU



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Diffuser Supply (GRD)

RTU1/

| Asset | | | | | | | | | |
|------------|----------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | DINING | SD3 | 8" | 150 | | | | | - |
| SGRD2 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD3 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD4 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD5 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD6 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD7 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD8 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD9 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD10 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD11 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD12 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD13 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD14 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD15 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD16 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD17 | DINING | SD1 | 10" | 300 | | | | | - |
| SGRD18 | DINING | SD1 | 8" | 150 | | | | | - |
| SGRD19 | DINING | SD1 | 12" | 500 | | | | | - |
| SGRD20 | DINING | SD1 | 12" | 200 | | | | | - |
| SGRD21 | DINING | SD1 | 10" | 450 | | | | | - |
| SGRD22 | DINING | SD1 | 10" | 350 | | | | | - |
| SGRD23 | DINING | SD1 | 10" | 350 | | | | | - |
| SGRD24 | DINING | SD1 | 10" | 350 | | | | | - |
| SGRD25 | DINING | SD1 | 10" | 350 | | | | | - |
| SGRD26 | DINING | SD1 | 12" | 450 | | | | | - |
| SGRD27 | DINING | SD4 | 8" | 150 | | | | | - |
| SGRD28 | DINING | SD4 | 8" | 150 | | | | | - |

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Project: 07-03-23 CULVERS - PLANO, IL

System/Unit: AHU/RTU



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Asset: RTU2

AREA:

| Unit Data | | | Test Data | | |
|---------------------|---------------------|---------------------|------------------------|--------|--------|
| | Design | Actual | | Design | Actual |
| MFG | ACCUREX/CAPTIVEAIRE | ACCUREX/CAPTIVEAIRE | RA CFM | 6150 | |
| Serial Num | - | | SF RPM | - | |
| Model Num | NA | NA | RA CFM | 4450 | |
| Type | RTU | | OA CFM | 1700 | |
| Configuration | VERTICAL | | RL Voltage | - | |
| Num OA Filters 1 | - | | RL Amperage | - | |
| OA Filter Size 1 | - | | SF Rotation | - | |
| Num Final Filter 1 | - | | RA Damper Position | - | |
| Final Filter Size 1 | - | | Min OA Damper Position | - | |
| Num Final Filter 2 | - | | Min OA Damper Type | - | |
| Final Filter Size 2 | - | | OA Enthalpy Setpt | - | |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | |
| Frame | - | |
| Horsepower | - | |
| Motor Rpm | - | |
| Phase | 3 | |
| Rated Voltage | 208 | |
| Rated Amperage | - | |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| MA Plenum SP | - | |
| Fan Suction SP | - | |
| Fan Discharge SP | - | |
| Total ESP | 0.75" | |
| Fan Total SP | - | |

| Drive Data | | |
|--------------------|--------|--------|
| | Design | Actual |
| Motor Sheave Size | - | |
| Motor Bore Size | - | |
| Motor Sheave SetPt | - | |
| Fan Sheave Size | - | |
| Fan Sheave Bore | - | |
| Belt CL Distance | - | |
| Num of Belts | - | |
| Belt Size | - | |
| Belt Alignment | - | |

| General | | |
|----------------------------|--------|--------|
| | Design | Actual |
| Fan Rotation Correct | - | |
| Unit Filters Clean | - | |
| Condensate Drain Installed | - | |

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Project:07-03-23 CULVERS - PLANO, IL

AHU/RTU



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Diffuser Supply (GRD)

RTU2/

| Asset | | | | | | | | | |
|------------|--------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | KITCHEN | SD1 | 12" | 600 | | | | | - |
| SGRD2 | KITCHEN | SD1 | 12" | 600 | | | | | - |
| SGRD3 | KITCHEN | SD5 | 8" | 200 | | | | | - |
| SGRD4 | KITCHEN | SD5 | 12" | 375 | | | | | - |
| SGRD5 | KITCHEN | SD5 | 12" | 400 | | | | | - |
| SGRD6 | KITCHEN | SD5 | 12" | 400 | | | | | - |
| SGRD7 | KITCHEN | SD5 | 10" | 250 | | | | | - |
| SGRD8 | KITCHEN | SD5 | 10" | 275 | | | | | - |
| SGRD9 | TOILET | SD1 | 6" | 75 | | | | | - |
| SGRD10 | KITCHEN | SD1 | 8" | 125 | | | | | - |
| SGRD11 | KITCHEN | SD5 | 12" | 350 | | | | | - |
| SGRD12 | KITCHEN | SD5 | 12" | 350 | | | | | - |
| SGRD13 | KITCHEN | SD5 | 12" | 350 | | | | | - |
| SGRD14 | DRY GOODS | SD1 | 12" | 600 | | | | | - |
| SGRD15 | DRY GOODS | SD1 | 12" | 600 | | | | | - |
| SGRD16 | UTILITY ROOM | SD1 | 12" | 600 | | | | | - |

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Project: 07-03-23 CULVERS - PLANO, IL
System/Unit: FAN - Exhaust



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Asset: EFA1

AREA:

| Unit Data | | |
|---------------|---------|---------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XCR-B80 | XCR-B80 |
| Serial Num | - | |
| Type | - | |
| Configuration | - | |

| Test Data | | |
|------------------|--------|--------|
| | Design | Actual |
| CFM | - | |
| Fan RPM | - | |
| Fan Rotation | - | |
| Motor RPM | - | |
| System SetPt | - | |
| RL Voltage | - | |
| RL Amperage | - | |
| Total ESP | - | |
| Fan Inlet SP | - | |
| Fan Discharge SP | - | |

| Motor Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | |
| Frame | - | |
| Horsepower | - | |
| Motor Rpm | - | |
| Phase | - | |
| Voltage (rated) | - | |
| Amperage (rated) | - | |
| Service Factor | - | |

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Project: 07-03-23 CULVERS - PLANO, IL
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: PRV1

AREA:

| Unit Data | | |
|----------------------|-------------|-------------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XRED-090-VG | XRED-090-VG |
| Serial Num | - | |
| Type | - | |
| Configuration | - | |

| Motor Data | | |
|-------------------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | |
| Frame | - | |
| Horsepower | - | |
| Motor Rpm | - | |
| Phase | - | |
| Voltage (rated) | - | |
| Amperage (rated) | - | |
| Service Factor | - | |

| Test Data | | |
|-------------------------|--------|--------|
| | Design | Actual |
| CFM | - | |
| Fan RPM | - | |
| Fan Rotation | - | |
| Motor RPM | - | |
| System SetPt | - | |
| RL Voltage | - | |
| RL Amperage | - | |
| Total ESP | - | |
| Fan Inlet SP | - | |
| Fan Discharge SP | - | |

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FAN - Exhaust



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Diffuser Ret/Exh (GRD)

PRV1/

| Asset | | | | | | | | | |
|------------|-------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| EGRD1 | M.RESTR OOM | EG1 | 8X8 | 150 | | | | | - |
| EGRD2 | W.RESTR OOM | EG1 | 8X8 | 150 | | | | | - |
| EGRD3 | TOILET | EG1 | 8X8 | 75 | | | | | - |

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Project: 07-03-23 CULVERS - PLANO, IL
System/Unit: FAN - Exhaust



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Asset: PRV2

AREA:HOOD 1

| Unit Data | | |
|----------------------|---------------|---------------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XRUB-160XP-15 | XRUB-160XP-15 |
| Serial Num | - | |
| Type | UPBLAST | |
| Configuration | CENTRIFUGAL | |

| Test Data | | |
|----------------------|--------|--------|
| | Design | Actual |
| CFM | 1500 | |
| Fan RPM | 2411 | |
| Fan Rotation | - | |
| Motor RPM | - | |
| RL Voltage | - | |
| RL Amperage | - | |
| Suction ESP | - | |
| Discharge ESP | - | |
| Total ESP | 2.337" | |

| Motor Data | | |
|-------------------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | |
| Frame | - | |
| Horsepower | - | |
| Motor Rpm | 1725 | |
| Phase | 3 | |
| Voltage (rated) | 208 | |
| Amperage (rated) | - | |
| Service Factor | - | |

| Drive Data | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Motor Sheave Size | - | |
| Motor Bore Size | - | |
| Motor Sheave SetPt | - | |
| Fan Sheave Size | - | |
| Fan Sheave Bore | - | |
| Belt CL Distance | - | |
| Num of Belts | - | |
| Belt Size | - | |

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Project: 07-03-23 CULVERS - PLANO, IL
System/Unit: FAN - Exhaust



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Asset: PRV3

AREA:HOOD 2

| Unit Data | | |
|----------------------|-------------|------------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XRUB-140-7 | XRUB-140-7 |
| Serial Num | - | |
| Type | UPBLAST | |
| Configuration | CENTRIFUGAL | |

| Test Data | | |
|----------------------|--------|--------|
| | Design | Actual |
| CFM | 1500 | |
| Fan RPM | 1377 | |
| Fan Rotation | - | |
| Motor RPM | - | |
| RL Voltage | - | |
| RL Amperage | - | |
| Suction ESP | - | |
| Discharge ESP | - | |
| Total ESP | 1.0" | |

| Motor Data | | |
|-------------------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | |
| Frame | - | |
| Horsepower | - | |
| Motor Rpm | 1725 | |
| Phase | 3 | |
| Voltage (rated) | 208 | |
| Amperage (rated) | - | |
| Service Factor | - | |

| Drive Data | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Motor Sheave Size | - | |
| Motor Bore Size | - | |
| Motor Sheave SetPt | - | |
| Fan Sheave Size | - | |
| Fan Sheave Bore | - | |
| Belt CL Distance | - | |
| Num of Belts | - | |
| Belt Size | - | |

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Project: 07-03-23 CULVERS - PLANO, IL

System/Unit: Kitchen Hood Type I



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Asset: HD1

AREA:

| Unit Data | | |
|------------------|-----------|-----------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XGEP-64-S | XGEP-64-S |
| Job / Serial Num | - | |
| Type | TYPE I | |
| Hood length | 64" | |
| Hood Width | 23" | |

| Test Data Exhaust | | |
|--------------------------|--------------------|--------|
| | Design | Actual |
| Filter Type | GREASE GBRABBER | |
| Filter Size 1 | 16X16 | |
| Filter Size 2 | - | |
| Filter Qty 1 | 4 | |
| Filter Qty 2 | - | |
| Filter AK factor size 1 | 1.53 | |
| Filters AK factor size 2 | - | |
| Filter Total AK Area | 6.12 | |
| Filter1 FPM | - | |
| Filter2 FPM | - | |
| Filter3 FPM | - | |
| Filter4 FPM | - | |
| Filter5 FPM | - | |
| Filter6 FPM | - | |
| Filter7 FPM | - | |
| Filter8 FPM | - | |
| Filter9 FPM | - | |
| Filter10 FPM | - | |
| Filter11 FPM | - | |
| Filter12 FPM | - | |
| Filter Ave FPM(corr) | - | |
| CFM | 1500 | |

| Cooking Equipment | | |
|-------------------|--------|--------|
| | Design | Actual |
| Item 1 | - | |
| Item 2 | - | |

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Project: 07-03-23 CULVERS - PLANO, IL

System/Unit: Kitchen Hood Type I



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Asset: HD2

AREA:

| Unit Data | | |
|------------------|-----------|-----------|
| | Design | Actual |
| MFG | ACCUREX | ACCUREX |
| Model Num | XXEP-83-S | XXEP-83-S |
| Job / Serial Num | - | |
| Type | TYPE I | |
| Hood length | 83" | |
| Hood Width | 24" | |

| Test Data Exhaust | | |
|--------------------------|----------|--------|
| | Design | Actual |
| Filter Type | XTRACTOR | |
| Filter Size 1 | 16X16 | |
| Filter Size 2 | - | |
| Filter Qty 1 | 5 | |
| Filter Qty 2 | - | |
| Filter AK factor size 1 | 1.53 | |
| Filters AK factor size 2 | - | |
| Filter Total AK Area | 7.65 | |
| Filter1 FPM | - | |
| Filter2 FPM | - | |
| Filter3 FPM | - | |
| Filter4 FPM | - | |
| Filter5 FPM | - | |
| Filter6 FPM | - | |
| Filter7 FPM | - | |
| Filter8 FPM | - | |
| Filter9 FPM | - | |
| Filter10 FPM | - | |
| Filter11 FPM | - | |
| Filter12 FPM | - | |
| Filter Ave FPM(corr) | - | |
| CFM | 1500 | |

| Cooking Equipment | | |
|-------------------|--------|--------|
| | Design | Actual |
| Item 1 | - | |
| Item 2 | - | |

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