

## STATEMENT OF BASIS

For the issuance of Draft Air Permit # 0968-AOP-R6 AFIN: 26-00022

1. PERMITTING AUTHORITY:

Arkansas Department of Environmental Quality  
5301 Northshore Drive  
North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Triumph Fabrications-Hot Springs, LLC  
1923 Central Avenue  
Hot Springs, Arkansas 71901

3. PERMIT WRITER:

Melisha Griffin

4. PROCESS DESCRIPTION AND NAICS CODE:

NAICS Description: Other Aircraft Parts and Auxiliary Equipment Manufacturing  
NAICS Code: 336413

5. SUBMITTALS:

10/17/2011

6. REVIEWER'S NOTES:

In this modification, the following changes are being incorporated into the permit:

- The Chromium Acid Anodizing process is being shut down and replaced with a boric/sulfuric acid anodizing process, and it will retain the current scrubber (SN-1-4). The Dilute Chromate Burner (SN-1-5) is being removed entirely. Since the Chromium Acid Anodizing process is ceasing operation, 40 CFR Subpart N no longer applies to this facility. The removal of the Chromium Acid Anodizing process will also completely remove the potential to emit chromium. The new emissions associated with this source 0.06 lb/hr and 0.27 tpy of sulfuric acid (H<sub>2</sub>SO<sub>4</sub>).
- The Titanium Chemical Milling Line (SN-2-21) is being modified and expanded. The expansion consists of five new process tanks with a new dedicated scrubber (SN-2-21), to add to the current five tanks/scrubber currently in use (SN-2-1A). The Chem-Mill tanks are being consolidated so that all ten tanks are in the same area. The new

process/scrubber (SN-2-21) emissions are nitrogen oxides at 6.3 lb/hr and 27.2 tpy, hydrogen flouride at 0.01 lb/hr and 0.03 tpy, and and nitric acid at 1.0 lb/hr and 4.4 tpy.

- The paint overspay filtration mechanism on the Paint Booths, SN-1-2 and SN-1-3, are being replaced. The current filtration mechanism is a waterfall design, and the replacement will be a three stage dry HEPA filter design. The change will no affect on emissions, production, or paint use, and the replacement is due to physical deterioration. The new filter system will meet MACT Subpart GG requirements, using certified HEPA filtsers.
- Return to the use of a traditional based (e.g., 75% toluene/25% xylene) maskant at SN-2-8.
- Renovate the M&W RegenSorb with catalytic oxidizer system for emissions control at the Chem-Mill Maskant Coating Operation (SN-2-8).
- Change the VOC testing requirement for SN-2-8 to Method 18 instead of Method 25 to be consistent with EPA's requirement for testing SN-2-8.
- Update the method of calculation for the pin cleaning operation (C-3) to take into account the VOC destruction efficiency at SN-2-8.

7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

There are no current enforcement actions against this facility.

8. PSD APPLICABILITY:

- a. Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N
- b. Is the facility categorized as a major source for PSD? N
- *Single pollutant  $\geq 100$  tpy and on the list of 28 or single pollutant  $\geq 250$  tpy and not on list, or*
  - *CO<sub>2</sub>e potential to emit  $\geq 100,000$  tpy and  $\geq 100$  tpy/ $\geq 250$ tpy of combined GHGs?*

If yes, explain why this permit modification is not PSD.

9. GHG MAJOR SOURCE (TITLE V):

Indicate one:

- ☐ Facility is classified as a major source for GHG and the permit includes this designation
- ☒ Facility does not have the physical potential to be a major GHG source

- ☐ Facility has restrictions on GHG or throughput rates that limit facility to a minor GHG source. Describe these restrictions: \_\_\_\_\_

10. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

| Source                                                                    | Pollutant   | Regulation<br>(NSPS, NESHAP or PSD) |
|---------------------------------------------------------------------------|-------------|-------------------------------------|
| 1-2, 1-3, 1-9, 1-17, C-1, C-2,<br>2-1A, 2-2B, 2-8, 2-10, 2-11<br>and 2-20 | VOC<br>HAPS | 40 CFR 63, Part GG                  |

11. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

12. MODELING:

Criteria Pollutants

Examination of the source type, location, plot plan, land use, emission parameters, and other available information indicate that modeling is not warranted at this time.

| Pollutant        | Emission Rate<br>(lb/hr) | NAAQS<br>Standard<br>( $\mu\text{g}/\text{m}^3$ ) | Averaging Time                                                                             | Highest<br>Concentration<br>( $\mu\text{g}/\text{m}^3$ ) | % of<br>NAAQS |
|------------------|--------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------|
| PM <sub>10</sub> | 1.7*                     | 150                                               | 24-Hour                                                                                    | 13.256                                                   | 26.5%         |
| SO <sub>2</sub>  |                          | 80                                                | Annual                                                                                     | 39.851                                                   | 26.6%         |
|                  |                          | 1300                                              | 3-Hour                                                                                     |                                                          |               |
|                  |                          | 365                                               | 24-Hour                                                                                    |                                                          |               |
| CO               |                          | 10,000                                            | 8-Hour                                                                                     |                                                          |               |
|                  |                          | 40,000                                            | 1-Hour                                                                                     |                                                          |               |
| NO <sub>x</sub>  |                          | 100                                               | Annual                                                                                     |                                                          |               |
| Pb               |                          | 0.15                                              | Rolling 3-month<br>Period over 3<br>years (not to be<br>exceeded in any<br>3 month period) |                                                          |               |

\*This is the modeled emission rate from a previous permit; since PM<sub>10</sub> emissions increased by only 0.1 lb/hr in 0968-AOP-R4, no additional modeling was performed.

## Non-Criteria Pollutants:

This permit contains a TLV table for non-criteria pollutants. Modeling was used to determine the permitted emission rates for ranges of non-criteria pollutants (grouped by TLV) that pass the PAER or PAIL. Toluene would not pass the PAER TLV table so it was modeled separately.

1<sup>st</sup> Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Department has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value ( $\text{mg}/\text{m}^3$ ), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

| Pollutant               | TLV ( $\text{mg}/\text{m}^3$ ) | PAER (lb/hr) = $0.11 \times \text{TLV}$ | Proposed lb/hr | Pass? |
|-------------------------|--------------------------------|-----------------------------------------|----------------|-------|
| HF                      | 0.40                           | 0.045                                   | 0.02           | Yes   |
| Toluene                 | 75.36                          | 8.290                                   | 62.05          | No    |
| Perchloroethylene       | 169.5                          | 18.6                                    | 18.6*          | Yes   |
| $\text{HNO}_3$          | 10.31                          | 1.134                                   | 2.6            | No    |
| $\text{H}_2\text{SO}_4$ | 0.2                            | 0.022                                   | 0.06           | No    |

The proposed lb/hr is based on a 95.2% control efficiency. @ a control efficiency of 95.2%, the facility meets the PAER, but vendor has guaranteed a control efficiency of much greater than 95.2 percent.

\*No TLV available so derived for the CEL (Corporate Exposure Limit) of 25 ppm 8 hr exposure

2<sup>nd</sup> Tier Screening (PAIL)

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Department to be one one-hundredth of the Threshold Limit Value as listed by the ACGIH.

| Pollutant               | PAIL ( $\mu\text{g}/\text{m}^3$ ) = $1/100$ of Threshold Limit Value | Modeled Concentration ( $\mu\text{g}/\text{m}^3$ ) | Pass? |
|-------------------------|----------------------------------------------------------------------|----------------------------------------------------|-------|
| Toluene                 | 753.6196                                                             | 742.45*                                            | Yes   |
| $\text{HNO}_3$          | 103.1                                                                | 46.1                                               | Yes   |
| $\text{H}_2\text{SO}_4$ | 2.0                                                                  | 1.57                                               | Yes   |

\*The pin cleaning was included in the model as a variable emission based on a worst case of all 20 gallons (18 lb/hr) of toluene being emitted over an 8 hour period (based on the facility's worst case calculations: 20 gallons/8 hrs  $\times$  7.2 lb/gal = 18 lb/hr). The modeled impact is based on the emissions (18 lb/hr) occurring every day for 8 hours per day. Since the facility is limited to only 20 gallons per

month, and since the actual toluene loss occurs over several days/weeks, the actual impact for toluene should be considerably less than the results above.

Other Modeling:

Odor:

H<sub>2</sub>S Modeling:

A.C.A. §8-3-103 requires hydrogen sulfide emissions to meet specific ambient standards. Many sources are exempt from this regulation, refer to the Arkansas Code for details.

Is the facility exempt from the H<sub>2</sub>S Standards

N

If exempt, explain: \_\_\_\_\_

| Pollutant        | Threshold value                                            | Modeled Concentration (ppb) | Pass? |
|------------------|------------------------------------------------------------|-----------------------------|-------|
| H <sub>2</sub> S | 20 parts per million (5-minute average*)                   | 7.47                        | Yes   |
|                  | 80 parts per billion (8-hour average) residential area     | 0.853                       | Yes   |
|                  | 100 parts per billion (8-hour average) nonresidential area | 0.853                       | Yes   |

\*To determine the 5-minute average use the following equation

$$C_p = C_m (t_m/t_p)^{0.2} \text{ where}$$

C<sub>p</sub> = 5-minute average concentration

C<sub>m</sub> = 1-hour average concentration

t<sub>m</sub> = 60 minutes

t<sub>p</sub> = 5 minutes

### 13. CALCULATIONS:

| SN  | Emission Factor Source (AP-42, testing, etc.) | Emission Factor (lb/ton, lb/hr, etc.) | Control Equipment | Control Equipment Efficiency | Comments |
|-----|-----------------------------------------------|---------------------------------------|-------------------|------------------------------|----------|
| 1-1 | test data                                     |                                       |                   |                              |          |

| SN                                                                                          | Emission Factor Source (AP-42, testing, etc.)                        | Emission Factor (lb/ton, lb/hr, etc.)                                | Control Equipment            | Control Equipment Efficiency | Comments                                                                                     |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------|------------------------------|----------------------------------------------------------------------------------------------|
| 1-2, 1-3, 1-9, 1-17, C-1, C-2, 2-8 and<br><br>C-3                                           | material usage mass balance for VOC and HAPs<br><br>Material Balance | varies per material<br><br>20 gallons/ 8 hrs x 7.2 lb/gal = 18 lb/hr | 2-8 has a catalytic oxidizer | 81%                          |                                                                                              |
| 1-4                                                                                         | Material Balance                                                     | 600 gallons<br>5% emitted<br>Density 18.44 lb/gal                    |                              |                              | test verified                                                                                |
| 1-6, 1-7, 1-7a, 1-8, 1-11, 1-12, 1-15, 1-18, 2-5, 2-6, 2-7, 2-9, 2-12, 2-13, 2-13a and 2-14 | AP-42                                                                | See AP-42                                                            | NA                           |                              | at some paint cure ovens, age ovens, etc, VOC emission are accounted for at the paint booths |
| 1-14                                                                                        | material usage mass balance                                          | varies per material                                                  |                              |                              |                                                                                              |
| 1-16                                                                                        | AP-42, test data for airborne metals                                 |                                                                      |                              |                              |                                                                                              |
| 2-1A and 2-2B                                                                               | test data                                                            |                                                                      | scrubbers                    | 99%                          |                                                                                              |
| 2-11                                                                                        | test data                                                            |                                                                      |                              |                              |                                                                                              |
| 2-19                                                                                        | AP-42                                                                | Lb/MMscf<br>NOX = 100<br>CO = 84<br>SO2 = 0.6                        |                              |                              |                                                                                              |

| SN   | Emission Factor Source (AP-42, testing, etc.) | Emission Factor (lb/ton, lb/hr, etc.)  | Control Equipment   | Control Equipment Efficiency | Comments      |
|------|-----------------------------------------------|----------------------------------------|---------------------|------------------------------|---------------|
|      |                                               | PM/PM <sub>10</sub> = 7.6<br>VOC = 5.5 |                     |                              |               |
| 2-20 | Material Balance                              | Historical usage                       | Carbon bed absorber | 95.2                         | Test verified |

## 14. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

| SN   | Pollutants                                | Test Method   | Test Interval        | Justification |
|------|-------------------------------------------|---------------|----------------------|---------------|
| 2-20 | Carbon bed Absorber efficiency - VOC/HAPs | §63.750(g)(1) | 7- to 30-day periods | Subpart GG    |

## 15. MONITORING OR CEMS

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

| SN  | Parameter or Pollutant to be Monitored | Method (CEM, Pressure Gauge, etc.) | Frequency | Report (Y/N) |
|-----|----------------------------------------|------------------------------------|-----------|--------------|
| N/A |                                        |                                    |           |              |

## 16. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

| SN                            | Recorded Item                                                              | Permit Limit                                          | Frequency                         | Report (Y/N) |
|-------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------|--------------|
| 1-1                           | nitric acid replenisher/ makeup                                            | 7,968 gal/yr                                          | monthly records                   | Y            |
| 1-2<br>1-3<br>1-9<br>1-17 C-1 | HAP calcs based on hours of operation to comply with TLV table and toluene | see tlv table, 104.1 tpy VOC acetone -42.1 tons/12 mo | HAPs - daily 3/hrs<br>VOC monthly | Y            |

| SN                                                                                                      | Recorded Item                                                                                                                                                                                  | Permit Limit                                     | Frequency       | Report (Y/N) |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|--------------|
| C-2<br>2-8                                                                                              | limits, VOC calculations monthly to comply with annual limits<br>Aerospace NESHAP - special limits on VOC content of non-specialty coatings, see permit for applicable requirements<br>Acetone |                                                  |                 |              |
| 1-4                                                                                                     | Sulfuric acid makeup or replenisher                                                                                                                                                            | 600 gal/yr                                       | Monthly records | Y            |
| 1-5 1-6<br>1-7 1-7a 1-8 1-11<br>1-12 1-15 1-181-<br>16 2-5 2-6<br>2-7 2-9<br>2-12 2-13<br>2-13a<br>2-14 | no specific records                                                                                                                                                                            | natural gas only should occasionally be verified | NA              | N            |
| 1-14                                                                                                    | developer VOC - MSDS<br>developer usage                                                                                                                                                        | 6.29 lb/gal<br>120 gal/yr                        |                 | Y            |
| 2-1A and 2-21                                                                                           | nitric acid makeup                                                                                                                                                                             | 21,696 gal/yr                                    |                 | Y            |
| 2-20                                                                                                    | Maskant throughput                                                                                                                                                                             | 900 gal/day                                      | daily           | Y            |

## 17. OPACITY:

| SN  | Opacity | Justification for limit                       | Compliance Mechanism                                                                                                        |
|-----|---------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| all | 5/20    | all gas fire 5%, the rest 20 % dept standards | natural gas only, equipment designs and the nature of the process prevent excesses of 20 % opacities from all other sources |

## 18. DELETED CONDITIONS:

| Former SC | Justification for removal |
|-----------|---------------------------|
| N/A       |                           |



## 19. GROUP A INSIGNIFICANT ACTIVITIES

| Source Name                                       | Group A Category | Emissions (tpy)     |                 |      |      |                 |        |       |
|---------------------------------------------------|------------------|---------------------|-----------------|------|------|-----------------|--------|-------|
|                                                   |                  | PM/PM <sub>10</sub> | SO <sub>2</sub> | VOC  | CO   | NO <sub>x</sub> | HAPs   |       |
|                                                   |                  |                     |                 |      |      |                 | Single | Total |
| Analytical Testing Lab                            | A-5              |                     |                 |      |      |                 |        |       |
| Welding                                           | A-7              |                     |                 |      |      |                 |        |       |
| 10,000 gallon Caustic Storage Tank                | A-4              |                     |                 |      |      |                 |        |       |
| 4,000 gallon Toluene Storage Tank                 | A-3              |                     |                 |      |      |                 |        |       |
| 3,000 gallon Acetone Storage Tank                 | A-13             |                     |                 |      |      |                 |        |       |
| 2 - 250 gallon MEK Storage Tanks                  | A-2              |                     |                 |      |      |                 |        |       |
| Age oven #6 (1.5 MM Btu/hr)                       | A-1              | 0.05                | 0.01            | 0.04 | 0.54 | 0.64            |        |       |
| 2 - 250 gallon Methyl Propyl Ketone Storage Tanks | A-2              |                     |                 |      |      |                 |        |       |
| 6,000 gallon Caustic Storage Tank                 | A-4              |                     |                 |      |      |                 |        |       |
| Oven #3 (Electric)                                | A-13             |                     |                 |      |      |                 |        |       |
| Penetrant Drying (Electric Furnace)               | A-13             |                     |                 |      |      |                 |        |       |
| Deburring Baghouse                                | A-13             |                     |                 |      |      |                 |        |       |
| MOCO Drop Bottom Furnace                          | A-13             |                     |                 |      |      |                 |        |       |

Permit #: 0968-AOP-R6

AFIN: 26-00022

Page 10 of 10

|                                                      |      |       |      |      |      |      |  |  |
|------------------------------------------------------|------|-------|------|------|------|------|--|--|
| 4 - 1,500 gallon<br>Triethanolamine<br>Storage Tanks | A-13 |       |      |      |      |      |  |  |
| Oven #4 (1.2<br>MM Btu/hr)                           | A-1  | 0.04  | 0.01 | 0.03 | 0.43 | 0.52 |  |  |
| Electric<br>Autocalve                                | A-13 |       |      |      |      |      |  |  |
| Oven #7<br>(Electric)                                | A-13 |       |      |      |      |      |  |  |
| Metal Routing<br>Baghouse                            | A-13 |       |      |      |      |      |  |  |
| Hot Water<br>Rinse Burner                            | A-1  | 0.5   | 0.05 | 0.5  | 1.8  | 1.8  |  |  |
| Cooling Tower                                        | A-13 | 0.011 |      |      |      |      |  |  |

20. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

List all active permits voided/superseded/subsumed by the issuance of this permit.

|                     |
|---------------------|
| Permit #0968-AOP-R5 |
| 0968-AOP-R5         |

21. CONCURRENCE BY:

The following supervisor concurs with the permitting decision.

  
Phillip Murphy, P.E.

## APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

## Fee Calculation for Major Source

Revised 08-20-12

Facility Name: Triumph Fabrications - Hot Springs, LLC  
 Permit Number: 0968-AOP-R6  
 AFIN: 26-00022

|               |           |                                   |       |
|---------------|-----------|-----------------------------------|-------|
| \$/ton factor | 22.97     | Annual Chargeable Emissions (tpy) | 260.5 |
| Permit Type   | Minor Mod | Permit Fee \$                     | 500   |

|                                    |      |
|------------------------------------|------|
| Minor Modification Fee \$          | 500  |
| Minimum Modification Fee \$        | 1000 |
| Renewal with Minor Modification \$ | 500  |

Check if Facility Holds an Active Minor Source or Minor Source General Permit ☐

|                                                                 |        |
|-----------------------------------------------------------------|--------|
| If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$ | 0      |
| Total Permit Fee Chargeable Emissions (tpy)                     | -13.13 |
| Initial Title V Permit Fee Chargeable Emissions (tpy)           |        |

*HAPs not included in VOC or PM:* Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

*Air Contaminants:* All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

| Pollutant (tpy)             | Check if Chargeable Emission        | Old Permit | New Permit | Change in Emissions | Permit Fee Chargeable Emissions | Annual Chargeable Emissions |
|-----------------------------|-------------------------------------|------------|------------|---------------------|---------------------------------|-----------------------------|
| PM                          | <input checked="" type="checkbox"/> | 8.1        | 8.1        | 0                   | 0                               | 8.1                         |
| PM <sub>10</sub>            | <input type="checkbox"/>            | 8.1        | 8.1        | 0                   |                                 |                             |
| SO <sub>2</sub>             | <input checked="" type="checkbox"/> | 5.7        | 5.7        | 0                   | 0                               | 5.7                         |
| VOC                         | <input checked="" type="checkbox"/> | 112.6      | 112.1      | -0.5                | -0.5                            | 112.1                       |
| CO                          | <input type="checkbox"/>            | 19.1       | 18.7       | -0.4                |                                 |                             |
| NO <sub>x</sub>             | <input checked="" type="checkbox"/> | 53.2       | 80         | 26.8                | 26.8                            | 80                          |
| H2SO4                       | <input checked="" type="checkbox"/> | 0          | 0.27       | 0.27                | 0.27                            | 0.27                        |
| HNO3                        | <input checked="" type="checkbox"/> | 6.7        | 11.1       | 4.4                 | 4.4                             | 11.1                        |
| Chromium Compounds          | <input type="checkbox"/>            | 0.00206    | 0          | -0.00206            |                                 |                             |
| Pb                          | <input type="checkbox"/>            | 0.3        | 0.3        | 0                   |                                 |                             |
| Zinc                        | <input type="checkbox"/>            | 0.3        | 0.3        | 0                   |                                 |                             |
| HF                          | <input checked="" type="checkbox"/> | 0.03       | 0.06       | 0.03                | 0.03                            | 0.06                        |
| H2S                         | <input checked="" type="checkbox"/> | 0.8        | 1.07       | 0.27                | 0.27                            | 1.07                        |
| Acetone                     | <input checked="" type="checkbox"/> | 42.1       | 42.1       | 0                   | 0                               | 42.1                        |
| CBTF                        | <input checked="" type="checkbox"/> | 44.4       | 0          | -44.4               | -44.4                           | 0                           |
| HAPs*                       | <input type="checkbox"/>            | 104.1      | 104.1      | 0                   |                                 |                             |
| Toluene**                   | <input type="checkbox"/>            | 0          | 0          | 0                   |                                 |                             |
| Perchloroethylene (Perc)*** | <input type="checkbox"/>            | 0          | 0          | 0                   |                                 |                             |

| Pollutant (tpy)                                       | Check if<br>Chargeable<br>Emission | Old<br>Permit | New<br>Permit | Change in<br>Emissions | Permit Fee<br>Chargeable<br>Emissions | Annual<br>Chargeable<br>Emissions |
|-------------------------------------------------------|------------------------------------|---------------|---------------|------------------------|---------------------------------------|-----------------------------------|
| *HAPs are Included in VOC totals unless specified     | <input type="checkbox"/>           | 0             | 0             | 0                      |                                       |                                   |
| **Toluene is Included in HAP totals                   | <input type="checkbox"/>           | 0             | 0             | 0                      |                                       |                                   |
| *Perc is a HAP but not a VOC. Perc is included in the | <input type="checkbox"/>           | 0             | 0             | 0                      |                                       |                                   |
| facility-wide total HAPS. HAPs are billed in the      | <input type="checkbox"/>           | 0             | 0             | 0                      |                                       |                                   |
| VOC totals. So, Perc is not being billed separately.  | <input type="checkbox"/>           | 0             | 0             | 0                      |                                       |                                   |