Α. Please state your name. 1 I am Francis P. Ferguson; I am the same Francis Ferguson who filed Α. 2 NWN Exhibits 7, 8, 9, and 10, and Supplemental Exhibits 9 and 10. 3 Q. What is the purpose of your testimony? 4 5 Α. The purpose is to address some general issues raised by the Northwest Industrial Gas Users (NWIGU) in their fully allocated cost 6 7 of service testimony and also assess specific NWIGU objections to the company's study. I also propose a compromise solution to what 8 is clearly a general problem with attempting a traditional fully 9 allocated cost of service study on NW Natural's Washington service 10 area. Finally, I address one disagreement I have with the 11 Washington Utility Commission Staff's (WUTC) demand charge 12 allocation. 13 Q. What are the general issues raised by NWIGU that you wish to 14 address? 15 Α. NWIGU asserts that the prevalence of special contracts on the 16 company's system results from the company's "refusal to offer cost 17 based transportation rates." (DWS-T3) pages 5-6, 9-10. This 18 assertion is simply not true. Customers negotiate special contracts 19 by threatening to bypass the company's distribution system. The 20 customer's ability to leave the distribution system derives directly 21

from the FERC's policies favoring bypass, not from a lack of appropriate transportation rates on the company's distribution system. System-wide, the rates the company has negotiated with special contract customers have been very low. The Oregon average is about 2.7 cents per therm. These rates are achieved by very large customers for whom direct connection to the pipeline is a real, economic option. For customers with this ability, negotiated rates are a good solution for all concerned. The customer gets rates that match his competitive options, and the company and other ratepayers receive the maximum possible contribution toward revenue requirements. Transportation rates are simply not an issue, because generally available rates are always presented as the "average," and bypass-candidate customers can usually beat the average. Essentially, NWIGU seems to suggest that the Commission provide bypass avoidance rates for all industrial customers on NW Natural's system, regardless of the size of the customer and regardless of that customer's competitive alternatives. Do you have any other general issues to address respecting Q. NWIGU's testimony? Α. Yes. Mr. Schoenbeck claims that the most important reason that there are so few customers on the company's Schedule 90 and 91

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rates is that the rates are too high. (DWS-T3) page 5, lines 26, 27. At the time these rates were introduced in Washington (at the request of Washington industrial customers), they were identical to the company's Oregon Schedule 90 and 91 rates. As of July, 2000 Oregon has fifteen Schedule 90 customers using 29 million therms annually, and fifty-six Schedule 91 customers using 128 million annual therms. This was roughly the case in June 1999 when the Oregon Schedule 90 and 91 rates were introduced in Washington. If these rates are too high, one certainly can not tell it from the behavior of Oregon customers on these schedules.

There are, in fact, several reasons why Washington Schedules 90 and 91 have few customers, and none of them have anything to do with the rate being too high. One reason why Washington customers have been slow to adopt Schedule 90 is due to the deal agreed to among company, industrial customers, public counsel, and WUTC staff about how to introduce the new schedules. In that deal, the parties agreed that for the first year after its initiation in Washington, customers choosing Schedule 90 would pay back to core customers the entire difference between the Schedule 90 margin and the margin they would have paid on their previous schedule. This was a phase-in approach to introducing the schedule. But, the phase-in meant that the vast majority of the benefits

1 the customers could gain by going to Schedule 90 were not immediately available. It is clear that some potential customers were waiting until the 2 phase- in expired before signing up for the rate schedule. 3 The reason that no customers have opted for Schedule 91 is the 4 relatively small size of Washington industrial customers when compared 5 to Schedule 91 customers system-wide. The company's existing 6 Washington Schedule 55 rate is guite competitive with Schedule 91 over 7 the range of consumption that Washington industrial customers typically 8 9 achieve. Q. What problems do the Northwest Industrial Gas Users see in NW 10 11 Natural's Fully Allocated Cost (FAC) study? A. NWIGU argues first that the company has ignored the Commission's 12 directive to directly assign costs to large customers in constructing 13 the FAC study. NWIGU feels that the company should have directly 14 allocated the costs of the ten Washington customers currently taking 15 transportation in order to assess the costs of Rate Schedules 90 and 16 91. NWIGU further argues that the company has used inappropriate 17 load factor data to assign costs to Schedule 90. 18 Did the company ignore the Commission directive to directly assign Q. 19 the costs of facilities serving large customers? 20

No. The company actually did directly allocate meter costs for the larger

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1 Washington customers.

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Q. Why didn't the company directly allocate costs for NWIGU's ten transportation customers (six Schedule 55 customers, the three special contract customers, and the one Schedule 90 customer) when developing its FAC study?

Several factors drove this decision. Primary among them is the lack of useful data for Washington large industrial customer costs. As NWIGU notes, there are only ten industrial transporters on NW Natural's system in Washington. Direct assignment of costs does not generally presume that an entire rate schedule would be developed on 10 customers and 13 meters. Instead, the customers for whom costs are directly assigned would normally form a part of a larger rate schedule or class into which their particular cost characteristics would blend. The result would be a more accurate assignment of costs to a class of service, a class usually much larger than the few direct assignment customers themselves. In the present instance, these customers do not blend into a larger whole; they are the whole. The results of direct assignment based on this very small group are simply not plausible. One source of the implausibility is the customers' diversity.

The ten customers (and 13 meters) range in size from an annual volume of about 175,000 therms to roughly 3.8 million therms a year.

Their investment costs are similarly diverse, ranging from \$9,000 to \$900,000. To try and assess such a range of usage and investment costs as this with only 13 observations is folly. If, in other words, all of the customers NWIGU has examined were very similar to one another, then perhaps 13 observations could provide some useful guidance for constructing a rate schedule. Given the wide divergence in customer characteristics, direct assignment provides results that are patchy at best. They cannot be regarded as reasonable and representative.

Another factor influencing the company's decision to not directly assign costs in developing Schedule 90 is the fact that the most of the ten customers NWIGU selects would not, themselves, be candidates for Schedule 90 or 91. Schedules 90 and 91 have been approved and tariffed in Washington since June 1, 1999. To date, only one customer has taken service on either schedule. Schedule 55 customers in Washington take service on a rate that has a first block at 8.5 cents per therm for the first 750,000 therms and 2.9 cents per therm thereafter. Given the relatively small size of Washington Schedule 55 customers (both sales and transportation), none of them have found the Schedule 90 or 91 rate more attractive than Schedule 55.

The three special contract customers are not appropriate to use in an analysis of cost-based rates. These customers have negotiated

special agreements reflecting their own, very real, competitive bypass options. Where customers have realistic bypass opportunities, they can take service directly from the interstate pipeline. Because these customer are not held "captive" in any way by the local distribution company (LDC), they do not need the protection of regulation. They can, and do, hammer out their own competitive agreements with the LDC—or, failing that, they bypass. The LDC has no "monopoly power" over them, but is, instead, simply another energy supplier. As such, the LDC is no more obligated to offer cost-based service to them than are their office supplies providers. Because of their real competitive alternatives, special contract customers have placed themselves outside of the realm of cost-based regulation. For this reason, data on special contract customers should not be used to construct regulated, cost-based tariffs.

The final factor underlying the company's decision not to directly assign costs from NWIGU's list of customers is the company's vision of the purpose of this analysis. NW Natural undertook this FAC study to assess the reasonability of its existing Washington rates. It was not, as NWIGU seems to suggest, undertaken to design a new transportation rate. Given that Schedules 90 and 91 are existing, currently tariffed, WUTC-approved rates and given that none of the Schedule 55 or special contract customers NWIGU selected are on (or have evinced interest in)

the schedules in question, it is not appropriate to use them for the analysis of these schedules.

3 Q. Does NWIGU's direct assignments yield reasonable results?

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In my opinion they do not. The rate itself is unreasonable. According to Mr. Schoenbeck's testimony, NWIGU has calculated an average cost of service for the ten transportation customers of 2.4 to 2.7 cents per therm, and this for a collection of ten customers with an average but highly variable use of about 1.4 million therms a year. Washington special contract customer rates are about 5.9 cents per therm for customers using about 3.5 million therms a year. Oregon special contract customers pay about 2.7 cents a therm and use an average of nearly 12 million therms a year. It is simply not credible that the small group of relatively small Washington customers merits a rate lower than the bypass avoidance rate negotiated by NW Naturals largest industrial customers—customers that are, *on average*, more than three times larger than the *largest* customer in the sample NWIGU chose for it's analysis.

NWIGU's investment costs are also not reasonable. According to the NWIGU study, the transportation class carries a total rate base of \$646,882. This is what remains of a gross plant figure of \$1,640,792. As a class, then, 58% of the transportation gross plant has been "eaten away" by depreciation. There is, at present, only one customer on

Schedule 90, and none on Schedule 91. The sole customer on Schedule 90 has a gross investment of \$126,369 with accumulated depreciation of \$19,690. For this customer, only sixteen percent of the investment has been consumed by depreciation. What NWIGU has done is to add to Schedule 90 a mix of firms whose annual consumption exceeds the level achieved by the customer actually on Schedule 90, and whose investment is much more fully depreciated than the that of the customer already on the schedule. The result is a very low cent-per-therm rate.

Q. Why did NW Natural assign the load factor associated with industrial firm customers as a class to Schedule 90?

A. As explained in my original testimony, customers choosing

As explained in my original testimony, customers choosing

Schedule 90, a firm schedule, want gas arriving at the city gate to be
assured of arriving at their meter. These customers, then, require of
the company the same degree of system "robustness" that firm
sales customers require. The ability of the company's distribution
system to move gas from the city gate to individual customers is
most taxed on days where demand is greatest: on peak days, in
other words. Load factor is a measure of a customer's contribution
to peak day loads, and indicates the degree to which customers will
tax the distribution system. The degree to which customers tax the
system is a measure of the share of system costs they should

absorb. Since Schedule 90 is a firm schedule, current firm sales 1 customers are the most likely to be attracted to it. Since it is from 2 this group that Schedule 90's customers are likely to come, it is they 3 that should be looked to for future customer characteristics. Clearly 4 none of the interruptible transporters would be interested. 5 Q. Since only one customer currently takes service under Schedule 90. 6 why didn't NW Natural use that customer's load factor to assign the 7 costs of firm service on system? 8 In one sense, the company did use this customer's load factor to 9 Α. 10 assign costs. In computing the load factor for industrial firm customers, the total volume in that class was used. This historical 11 data included a period in which the customer on Schedule 90 was an 12 industrial firm sales customer. Still, that customer's use patters 13 were included with those of other firm customers, not used alone. 14 Obviously, it would be a bad idea to design a rate schedule using the 15 usage characteristics of one customer. Other customers can be 16 17 expected to adopt this schedule over time, and the rate should be structured to fit the anticipated characteristics of customers most 18 likely to migrate there. Those customers are current industrial sales 19 customers who desire firm service; i.e., industrial firm customers. 20

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Q. Why didn't the company's FAC study contain any assessment of the 1 Washington Schedule 91 rate? 2 Most of the allocators used in FAC studies presume some degree of 3 Α. usage and revenue on a given rate schedule. In the case of 4 Schedule 91, there are no customers, hence, no usage or revenue. 5 Since there is no data to use to allocate costs (peak day demand, 6 share of total customers, share of total sales, share of total revenue 7 or margin) it is nearly impossible to allocate costs to the schedule. 8 Indeed, NWIGU's cost study in effect allocates to Schedule 91 the 9 10 specific costs and usage levels of customers who are not on that schedule. 11 Q. What do you conclude about NWIGU's criticism of the company's 12 FAC study? 13 NWIGU's efforts to construct a transportation rate based on ten Α. 14 customers, and the company's efforts to assess the cost of service 15 for Schedule 90 both, run into the same basic difficulty—a lack of 16 17 data. Washington has simply too few industrial customers to develop a reliable cost analysis for the higher volume industrial 18 group. While the company much prefers its use of accepted, general 19 allocators to NWIGU's direct assignment method for assigning costs 20 in the present case, it is clear that problems exist both in the 21

company's and in NWIGU's approach to cost allocation in this area. 1 Because neither party has produced a problem-free cost analysis of 2 3 either Schedules 90, 91, or NWIGU's hypothetical transportation rate, the company proposes that Schedules 90 and 91 charges be set 4 equal to the current Oregon tariffed 90 and 91. Copies of the tariffs 5 are attached as pages 1 and 2 of my exhibit. This will achieve rate 6 homogeneity between jurisdictions, and will tend to align these 7 schedules to cost analyses that may occur from time to time in 8 Oregon, a service territory in which ample industrial cost data can be 9 10 found. This solution is further recommended by the fact that the resulting rates would be fairly close to the Schedule 90 and 91 11 charges requested by Washington customers and approved by the 12 WUTC less than 18 months ago. 13 Q. Are the rates suggested by NWIGU equal to the current Oregon 14 Schedule 90 and 91 rates? 15 No. Despite Mr. Schoenbeck's recommendation that there be uniform Α. 16 rates between states (DWS-T3, page 10), NWIGU's proposed Schedule 17 90 and 91 rates differ from Oregon's. 18 Do NWIGU's proposed Schedule 90 and 91 rates result from their Q. 19 20 FAC study? Not as far as one can tell. It is clear from simple inspection that the rates A. 21

1 NWIGU proposed would not yield the 2.4 to 2.7 cent per therm charge which Mr. Schoenbeck claims his FAC study supports. NWIGU does not 2 appear to present any analytical basis for the rate they propose. The 3 rates seem to be those that NWIGU proposed in NW Natural's last 4 Oregon general rate case (Docket No. UG 132). 5 Q. Were the Schedule 90 and 91 rates that NWIGU proposes be adopted in this docket also adopted in Oregon in Docket No. UG 132? 7 8 A. No, they were not. Q. Mr. Schoenbeck claims that, since there is but one Washington customer on Schedule 90 and none on 91, the NWIGU rate structure 10 can be put in place without "causing an undue burden on the 11 remaining customers of the Company". Do you agree? 12 Α. No. While it is true that the initial impact of NWIGU's rate proposal 13 would be relatively small, the overall effect would be much larger 14 than the \$150,000 (0.5%) revenue transfer which Mr. Schoenbeck 15 claims. The company has performed an analysis of the rate 16 migration that would result from NWIGU's rates, and the results are 17 more serious than indicated by NWIGU. Were NWIGU's rate 18 proposal adopted, longer-term customer migration would account 19 for over \$1.3 million in margin revenue loss. A copy of this analysis 20 21 is attached as page 3 of my exhibit. The transfer of this margin

responsibility to the residential and commercial classes would result 1 in a 4.5% increase in rates, for an average of 2.7 cents per therm. 2 This is almost ten times the effect claimed by NWIGU. 3 Q. What does the WUTC Staff propose with regard to demand charge 4 allocation? 5 The Staff witness, Mr. Russell, allocates demand charges using a Α. base-intermediate-peak methodology. This results in a different 7 demand rate for each schedule than the company proposed in it's 8 original filing. 9 10 Q. Does Staff's proposal conform with past WUTC decisions and practice? 11 Α. For the most part, it does, but it also imposes an unreasonable 12 burden upon the company's interruptible customers. 13 Why is this? Q. 14 Staff suggests an interruptible demand charge of 7.014 cents per Α. 15 therm. The company has, since at least 1996, charged its 16 17 interruptible customers a demand rate of roughly 1.279 cents per therm. Staff's proposed demand charge is an increase of over 500%. 18 In addition, the proposed 7.014 cent rate, if applied to Schedule 55, 19 will in itself equal fully 82.5 percent of the 8.497 cent per therm, first 20

block distribution margin.

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Such overwhelming increases in interruptible demand charges constitute serious rate shock with very little beneficial effect. The total cost shifted from firm to interruptible by this exercise is only \$71,374 or 1.2% of demand charges. Firm rates will decrease by only \$0.00134 cents per therm or a roughly 0.2% reduction in residential rates. This is a very small benefit to be flowing from the very high cost of a five-fold increase in interruptible demand charges.

It should be noted, further, that the company's interruptible demand charge reflects a continuous practice over many years, and was developed with the full cooperation of the WUTC Staff and approved by the Commission.

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How did the current interruptible demand charges come into being?

The Washington Utility Commission Staff approached the company in 1995 and suggested that demand charges needed to be applied to interruptible rate schedules. The company had not, to that point, applied demand charges to interruptible customers. After a period of negotiation, a demand charge was developed with WUTC Staff participation. The demand charge was in the range of 1.3 cents per therm. Staff and the company agreed that this rate should be charged interruptible sales customers with the exception of

Schedule 55. The company argued, and the Staff agreed, that 1 Schedule 55 sales could not stand the full 1.3 cent increment and 2 3 still remain competitive. For this reason, Staff and company developed the "Market Offset." The market offset was (and is) a 4 roughly 0.7 cent amount that was subtracted from the 1.3 cent 5 increment, leaving about 0.6 cents as the Schedule 55 demand 6 charge. 7 8 Q. What does the company recommend? Α. The company feels that imposing a 7 cent demand charge on 9 10 customers who for many years have paid about 1.2 cents towards demand constitutes a clear instance of rate shock, and fails to 11 provide significant benefits to firm customers. For this reason, the 12 company recommends that the interruptible demand charge be left at 13 its current level. 14 Do you have any further comments? Q. 15 Yes. Staff's testimony regarding the class cost of service and rate spread Α. 16 issues also addresses a long, three-year phase-in of revenue 17 requirement. I do not address that because it has been addressed by Mr. 18 DeBolt in NW Natural Exhibit 23. 19 Does this conclude your cross-responsive testimony? 20 Q.

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Yes.